

SEZAM

USER'S MANUAL



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This document is applicable to SEZAM Version 3.1.2 and to all subsequent releases, unless otherwise indicated in new editions or technical newsletters.

Specifications contained herein are subject to change and these changes will be reported in subsequent revisions or editions.

Readers' comments are welcome. Comments may be directed to:

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SEZAM USER'S MANUAL

1. Overview

SEZAM is an interactive menu-driven database management system for the ADABAS and NATURAL.

SEZAM comprises the components shown in Figure 1-1.

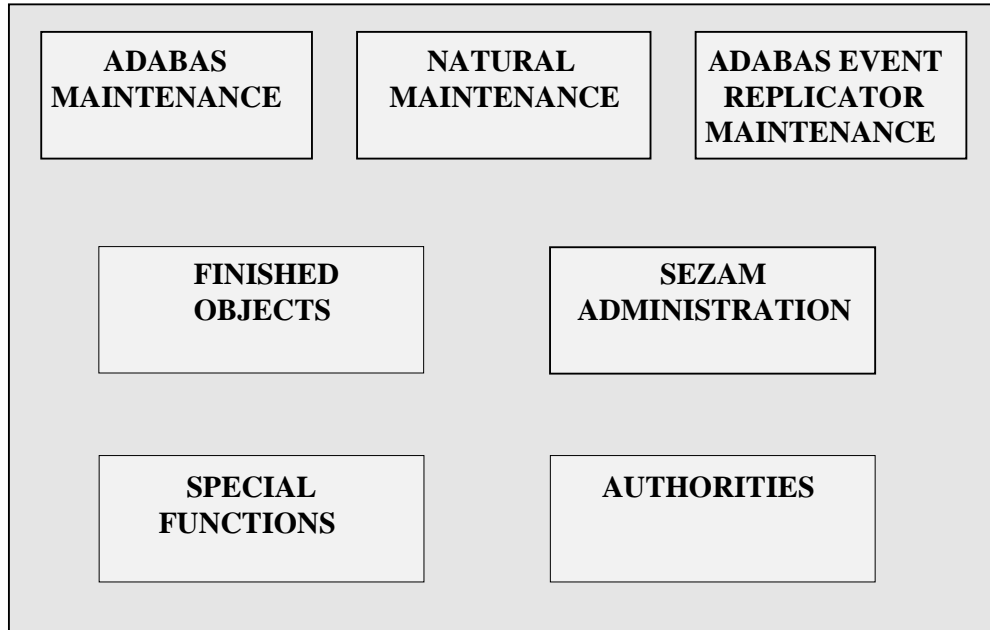


Figure 1-1: SEZAM Components

Briefly, the components are:

- * **ADABAS MAINTENANCE:** performs ADABAS Utilities.
- * **ADABAS EVENT REPLICATOR MAINTENANCE:** performs ADABAS Event Replicator Utilities.
- * **NATURAL MAINTENANCE:** performs NATURAL Utilities, NATURAL System Commands and NATURAL User Programs.
- * **FINISHED OBJECTS:** operates with already prepared jobs, or patterns.
- * **SEZAM ADMINISTRATION:** performs SEZAM administration functions, i.e. user creation, environment definitions, saved jobs processing, threshold setting etc. For more information consult the *SEZAM Administration Manual*.
- * **SPECIAL FUNCTIONS:** auxiliary SEZAM features.
- * **AUTHORITIES:** displays autorisation settings of the SEZAM user.

2. What is SEZAM?

SEZAM is the Database Administrator (DBA) tool for the monitoring and changing of ADABAS databases by performing the standard set of ADABAS/NATURAL utilities.

With the help of SEZAM you can generate and execute JCL / REXX for ADABAS NATURAL utilities and NATURAL system commands. SEZAM gives you a menu-based alternative for performing the most common DBA tasks. You can navigate through SEZAM using direct commands or menus. Some of SEZAM functions can be granted to non-DBA users to ensure them the possibility to execute a part of ADABAS/NATURAL utilities, NATURAL system commands and NATURAL programs in batch.

SEZAM is written in NATURAL, Software AG's fourth generation application development facility.

3. What You Can Do with SEZAM?

An overview of the main SEZAM functions is shown on the Figure 3-1. Using SEZAM, you can select and perform these functions interactively.

Main SEZAM functions includes:

- * Job generation and execution for ADABAS and ADABAS Event Replicator utilities. Set of ADABAS utilities depends on user type. For information about SEZAM users consult the *SEZAM Administration Manual*.
- * Job generation and execution for NATURAL utilities, system commands and user programs. Set of NATURAL utilities and system commands depends on user type.
- * Operating with already generated jobs or with jobs from SEZAM Saved Jobs Area. For information about SEZAM finished jobs consult the section *Finished Objects*.
- * Maintenance of SEZAM system objects. For information about SEZAM users, database environments, parameter's lists, history subsystem, saved jobs and translation tables consult *SEZAM Administration Manual*.
- * Processing of SEZAM utilities. For information about SEZAM utilities consult the *SEZAM Utilities Manual*.

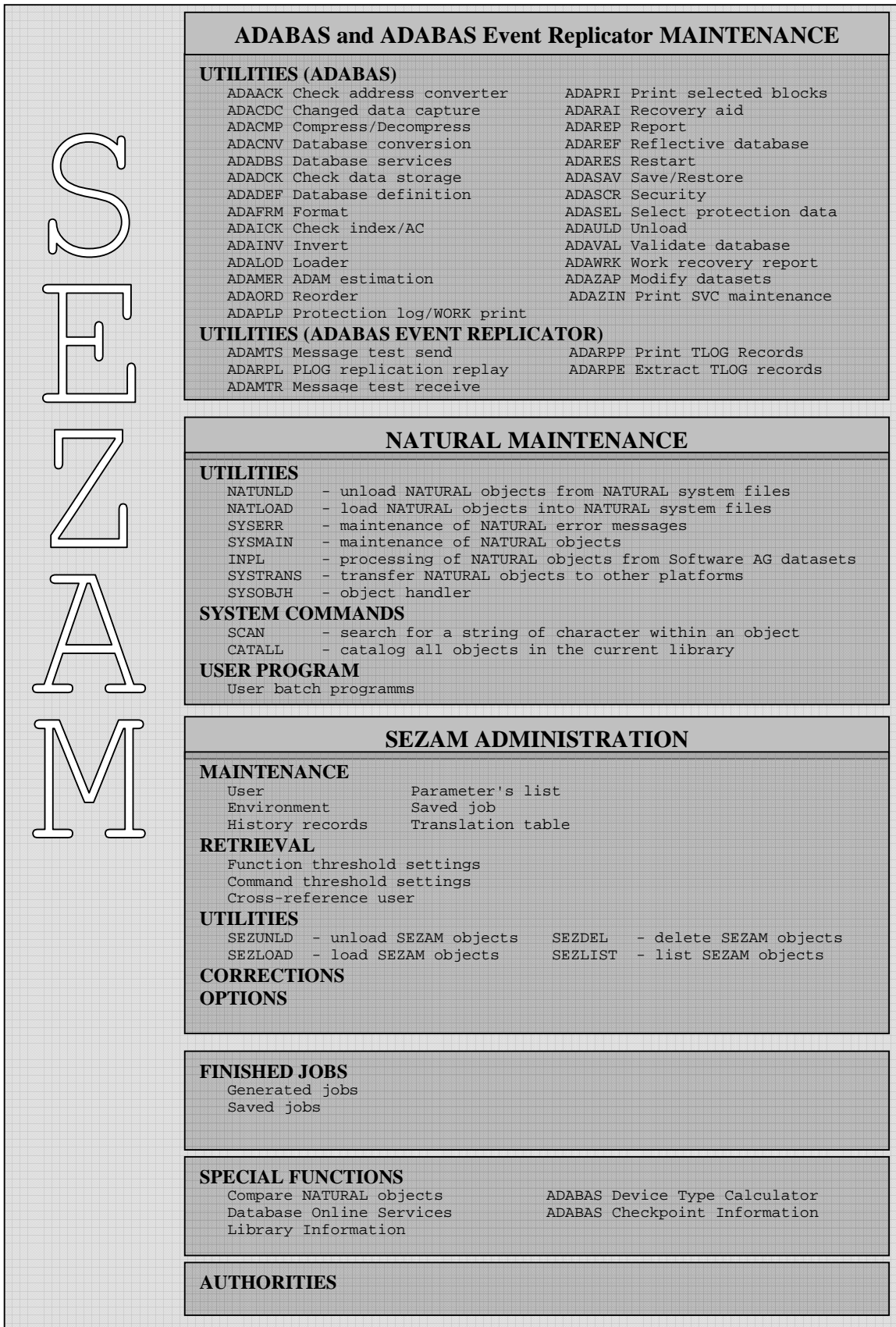


Figure 3-1: Overview of SEZAM functions

Set of available SEZAM functions depends on user type. In Figure 3-1 are shown SEZAM functions for the user type A(ADMINISTRATOR).

The detailed lists of the functions available for the users different from ADMINISTRATOR are represented in the *ADABAS Maintenance* and *NATURAL Maintenance* sections in this manual.

4. Concepts and Terminology of SEZAM

Goals of SEZAM

SEZAM is designed to meet the following requirements:

- * Easy to install: SEZAM requires only an hour to install
- * Easy to use: once SEZAM is invoked, DBA selects a ADABAS/NATURAL utility and provides the required set of parameters which can be used more than once
- * Getting help: SEZAM provides help information on every screen. On-line help is the very best first choice when questions or problems occur
- * High degree of flexibility: an internal mechanism of modifying the sequence of statements by the job generation makes it possible to generate the JCL/REXX for every known mainframe operating system
- * Open system: the generated job can be modified by the user if the need arises
- * Access control: SEZAM has a comprehensive system to control and check a database environment access via SEZAM functions. SEZAM enables a high grade of protection against an unauthorised access and improper use

Environment

The central subject within the concepts of SEZAM is *environment*.

Most of ADABAS/NATURAL users operate with different environments which are ADABAS databases containing different NATURAL system files. Typically, a commercial computer system has environments for the following purposes:

- * Production
- * Application development
- * System test

There are many different ways of establishing a test and production environments with ADABAS and NATURAL. Usually, there is one database per environment, each with one NATURAL system file. These would be considered to be distinct environments. It is also possible to use the same database with the same NATURAL system files from different TP-systems (e.g., TSO and CICS). These are considered to be one environment.

Every database environment must be defined in SEZAM. SEZAM has a built-in subsystem which allows creation, modification and delete of environments. There is no restriction on the number of environments.

For more information about SEZAM environments refer to *SEZAM Administration Manual*.

Users

To be able to use SEZAM the user must be registered in the system. SEZAM has a built-in subsystem for create, modify and delete users.

Users may be defined as one of the following types:

- * A(ADMINISTRATOR)
- * M(MANAGER)
- * E(EXPERT)
- * P(PERSON)

Every user type has its own set of the pre-defined SEZAM functions, ADABAS/NATURAL utilities and NATURAL system commands:

- * ADMINISTRATOR has authorities:
 - to execute the SEZAM administration functions
 - to operate in the all available database environments
 - to perform the full set of the ADABAS/NATURAL functions

This user type should be assigned to DBAs and SEZAM system administrators

- * MANAGER has authorities:
 - to operate in those environments where the ADMINISTRATOR has that allowed
 - to perform the comparatively wide set of the ADABAS/NATURAL functions.

This the user type is for the people responsible for the system maintenance only of the certain databases.

- * EXPERT has authorities:
 - to operate in those environments where ADMINISTRATOR has that allowed
 - to perform the set of the ADABAS/NATURAL functions only with up to 50 ADABAS files. The set of the allowed functions is not so wide as for the MANAGER.

This user type is designed for the experienced NATURAL developers.

- * PERSON has authorities:
 - to operate in those environments where ADMINISTRATOR has that allowed

- to perform the set of the ADABAS/NATURAL functions only with up to 50 ADABAS files. The set of functions is less than the same set for the EXPERT.

This is the default user type which will apply to the most people.

To provide the possibility for the single user to operate in more than one environment, user has to be registered in every environment where he is going to work. For example, the user can be defined in one environment as a MANAGER and in the other as a PERSON. The only exception is the user type ADMINISTRATOR which has to be defined only once.

For more information about SEZAM users refer to *SEZAM Administration Manual*.

History Records

SEZAM history subsystem supplies monitoring and accounting data for certain events within SEZAM. This data is accumulated in the history records and can be used to retrieve the information about the flow of job's submission. The history subsystem can be accommodated to the real needs of the customer so that the history records contain not only the brief information about the utility and the files being affected, but also include the complete JCL/REXX.

Parameter's Lists

SEZAM provides the opportunity to execute a wide range of ADABAS/NATURAL functions (Fig. 3-1), i.e. ADABAS/NATURAL utilities, NATURAL system commands etc. Every function needs the certain number of required and optional parameters. This set of parameters is called the *parameter's list*.

Some of ADABAS/NATURAL functions need the relatively large set of the consistent parameters. These parameters must be entered in accordance with ADABAS/NATURAL specific rules. The time needed for parameter's customizing can be sometimes comparable with the duration of the execution.

SEZAM supports the possibility to use the parameter's list more than once. This significant reduces the time needed for ADABAS/NATURAL parameter's customizing.

Every user has his own set of parameter's lists. The number of parameter's lists per user is unlimited. The user can operate only with his own parameter's lists.

For more information about SEZAM parameter's lists refer to *SEZAM Administration Manual*.

Saved Job

SEZAM provides the possibility to save commonly used jobs in a separate area of SEZAM system file. It allows to increase the performance by reducing the number of total execution of GN(GENERATE JCL) command.

Every saved job can be executed directly from SEZAM saved area. The use of saved jobs can be restricted by the date/time of the execution and/or by people authorized to execute it.

DBA can find it very comfortable to grant the permission to execute of some ADABAS/NATURAL utilities to the users who normally are not authorized for it.

Translation Table

Translation table is a list of 'Translate From' magic words which are dynamically searched and replaced with 'Translate To' samples in the execution time.

This facility can be activated for sensitive information presence of which in JCL/REXX violates the security, for example, user's passwords etc.

Each user can have one global and one local transaction table per database environment. During submitting of the job the translation mechanism will be activated and the local and global translation tables are searched. The entries defined in the global table will be active only if the local table is not defined.

5. How to Operate SEZAM?

SEZAM contains menus of functions, which depend on user type. All menus shown in this manual are available on the level of user type ADMINISTRATOR. The menus for MANAGER, EXPERT and PERSON provide less functionality.

To access SEZAM, logon to the NATURAL application, which steplib includes SYSSEZ library and enter SEZAM at the NEXT prompt.

SEZAM provides the logon procedure which realizes the following principle: every user gets the maximum authorization from the available. For example, the user is defined more than once: in the first environment - as a P(Person), in the second - as a M(Manager) and in the third - as an E(Expert). The maximum authorization for this user can be achieved on the level of Manager. So such user is identified as the Manager.

There is no difference between the introductory screens for Administrator and non-Administrator users (Fig. 5-1, 5-2).

```

13:46:43 ----- DBA Workbench ----- 2003-08-14
Command ==>

      SSSSSSSS  EEEEEEEE  ZZZZZZZZ  AAAAAAAAAA  MM      MMM
      SS      SS  EE      ZZ      AA      AA  MMM      MMMM
      SS      EE      ZZ      AA      AA  MM  MM      MM  MM
      SSSSSSSS  EEEEEEEE  ZZ      AAAAAAAAAA  MM  MM  MM  MM
      SS      SS  EE      ZZ      AA      AA  MM      MMM  MM
      SS      SS  EE      ZZ      AA      AA  MM      M    MM
      SSSSSSSS  EEEEEEEE  ZZZZZZZZ  AA      AA  MM      MM

Version 3.1                                     SM Level 0002

  A   P   R   O   D   U   C   T   O   F   K   O   N   S   T   A   N   T   I   N   S   O   U   M   M

User name ==> KSM
User type ==> A(dministrator)

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help           Exit           Copyright

```

Figure 5-1: Administrator Introductory Screen

```

13:46:47 ----- DBA Workbench ----- 2003-08-14
Command ==>

      SSSSSSSS  EEEEEEEE  ZZZZZZZZ  AAAAAAAAAA  MM      MMM
    SS      SS  EE      ZZ      AA      AA  MMM      MMMM
    SS      EE      ZZ      AA      AA  MM  MM      MM  MM
  SSSSSSSS  EEEEEEEE  ZZ      AAAAAAAAAA  MM  MM  MM  MM
      SS  EE      ZZ      AA      AA  MM      MMM  MM
SS      SS  EE      ZZ      AA      AA  MM      M  MM
SSSSSSSS  EEEEEEEE  ZZZZZZZZ  AA      AA  MM      MM

Version 3.1                               SM Level 0002

  A   P   R   O   D   U   C   T       O   F   K   O   N   S   T   A   N   T   I   N       S   O   U   M   M

User name ==> KSM1
User type ==> M(anager)

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit           Copyright

```

Figure 5-2: Manager Introductory Screen

When the introductory screen appears (Fig. 5-1), press ENTER to display the Administrator Startup Menu. The Administrator Startup Menu, shown in Figure 5-3, displays the major SEZAM functions.

```

13:49:29 ----- Administrator Startup Menu ----- 2003-08-14
Function ==>

_ 1 SEZAM administration
_ 2 ADABAS maintenance
_ 3 ADABAS EVENT REPLICATOR maintenance
_ 4 NATURAL maintenance
_ 5 Finished objects
_ 6 Special functions
_ 7 Authorities

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 5-3: Administrator Startup menu

SEZAM issues a message confirming each completed function. If an error occurs, a message appears describing the error. Before doing any error analysis, try reviewing the help information („?“ or PF1) for the last step you performed to see if any requirements were overlooked; then retry the operation. For information about SEZAM Messages refer *SEZAM Messages Manual*.

Subsequent sections in this manual describe the major SEZAM functions and menu/screen structures in the order they appear on the Administrator Startup Menu.

SEZAM Screens

Most of SEZAM screens have one of the following formats:

- * SEZAM MENU SCREENS re-present a selection list of possible functions. The screens are cursor sensitive. The user selects the function using cursor, or by entering the corresponding number in the „Function“ field at the top of the screen. Example of menu is shown in Figure 5-3.
- * SEZAM FUNCTIONAL SCREENS serve for performing of SEZAM functions. The SEZAM Command should be entered in the „Command“ field. Example of functional screen is shown in Figure 5-4.
- * SEZAM HELP SCREENS contain the help information. Example of help screen is shown in Figure 5-5.

```

13:55:07 ----- Unload / ADAULD(UNLOAD) ----- 2003-08-14
Command ==>

CM - Command help
.....
Parmlist destination:                               Job destination:
Parmlist name ==> _____ Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
File/Password ==> _____ / _____ Savetape ==> _____
Numrec ==> _____ Plognum ==> _____
DDisn ==> _____ Syn1/Syn4 ==> _____ / _____
Sortseq ==> _____ Tempsize ==> _____
Startisn ==> _____ Tempdev ==> _____
Selcrit ==> _____
Selval ==> _____
Numout ==> 1
Test ==> N
Nouserabend ==> N

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit Defaults      AddOp      Alloc

```

Figure 5-4: ADAULD(UNLOAD) Functional Screen

```

13:55:41 ----- Unload / ADAULD(UNLOAD) ----- 2003-08-14
Job name      - name of natural object to be saved, submitted or edited
Environment   - DB environment where ADABAS utility is to be processed
AdarunMode    - the ADABAS mode of operation to be used (MULTI/SINGLE)
File          - the number of the file to be unloaded
Password      - file security password
Numrec        - number of records to be unloaded
DDisn         - specify 'Y' to write the list of unloaded ISNs to the
                  sequential output file DD/ISN (>ADABAS 7.1)
Sortseq       - the sorting sequence for the unloaded ISNs:
                  descriptor-name / ISN
Startisn      - is used with the SORTSEQ and SELCRIT/SELVAL parameters
                  to restrict the unloaded records according to ISN
Selcrit       - selection criterion to restrict the unloaded records to
                  those which meet the selection criterion provided:
                  'AA,20,A,D,AB,10,A' - the search buffer syntax
Selval        - the values corresponding to the selection criteria
                  specified with the SELCRIT parameter:
                  'PARIS ' / X'00f33'
Numout        - the number of output files to be produced. If greater
                  than one, user exit 9 must be used to control OUT1/2
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12-
Exit                                     Next

```

Figure 5-5: ADAULD(UNLOAD) Help Screen

Entering Commands

SEZAM commands can be entered on the functional screens. The following commands can be issued:

Command	Description
CL	Browse available command's list
CD	Browse available direct command's list
CM	Show command's help information
ID	Show user authority
SA	Save/update parameter's list
BR	Browse parameter's list
DE	Delete parameter's list
EX	Generate and execute the job immediately
GN	Generate and save the job
ED	Edit the generated job
SU	Submit the generated job
LI	Show the list of generated jobs
?	Show help information

Other commands can be available on some different screens. To receive the information about the available commands use the CM(COMMAND HELP) command (Fig. 5-6).

```

14:01:05 ----- Commands ----- 2003-08-14
Parameter list maintenance:
SA/BR/DE - save/browse/delete parameter list
Job generation maintenance:
EX      - generate job and execute immediately
GN      - generate job in natural object, specified by JOBNAME parameter
ED      - edit already generated job, specified by JOBNAME parameter
SU      - submit already generated job from natural object, specified by
          JOBNAME parameter
LI      - browse already generated job (specified by JOBNAME parameter),
          or browse the list of all already generated jobs (parameter JOBNAME
          is empty)
Others:
CL/CD   - available command's/global direct command's list
ID      - browse authorization of the current user in the specified env.
PF-Keys:
PF1     - help
PF3     - processing termination
PF4     - default values
PF7     - additional parameters for the ADABAS utility
PF12    - JCL requirements processing
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12-
Exit

```

Figure 5-6: Available Commands Screen

Once you are familiar with SEZAM and know how to find your way from menu to menu, from function to function, you may also be interested in a faster and more flexible way of handling SEZAM: instead of having to fastidiously „walk“ from one menu to another, you may also „jump“ directly to the function you want. This is done by using *direct commands*.

You may enter a direct command on every SEZAM screen which provides a command or function line:

Command ===>

Function ===>

Each direct command can be executed only by users of appropriate type (Administrator, Manager, Expert and Person). The system reaction on the direct command also depends on the user's type.

If you enter a direct command which is invalid, you will receive an error message. For a list of available direct commands, enter CD(SHOW DIRECT COMMAND'S LIST) in the command line. Each user gets the list of the allowed direct commands depending on his type.

The direct commands equivalent to each function together with threshold settings are shown in Figure 5-7.

COMMAND	DESCRIPTION	THRESHOLD
ADA	ADABAS maintenance menu	P
ADAACK	ADAACK Check address converter	M
ADACDC	ADACDC Changed data capture	M
ADACMP	ADACMP Compress/Decompress	P
ADACNV	ADACNV Database conversion	A
ADADBS	ADADBS Database services	P
ADADCK	ADADCK Check data storage	M
ADADEF	ADADEF Database definition	A
ADAFRM	ADAFRM Format	M
ADAICK	ADAICK Check index/AC	M
ADAINV	ADAINV Invert	E
ADALOD	ADALOD Loader	E
ADAMER	ADAMER ADAM estimation	E
ADAORD	ADAORD Reorder	M
ADAPLP	ADAPLP Protection log/WORK print	M
ADAPRI	ADAPRI Print selected blocks	M
ADARAI	ADARAI Recovery aid	M
ADAREF	ADAREF Reflective database	A
ADAREP	ADAREP Report	P
ADARES	ADARES Restart	M
ADASAV	ADASAV Save/Restore	M
ADASCR	ADASCR Security	M
ADASEL	ADASEL Select protection data	M
ADAULD	ADAULD Unload	P
ADAVAl	ADAVAl Validate database	M
ADAZAP	ADAZAP Modify datasets	A
ADAZIN	ADAZIN Print maintenance information	A
BR	Browse parameter list	P
CD	Browse global direct command list	P
CL	Browse command list	P
CM	Command help	P
DE	Delete parameter list	P
ED	Edit generated job	P
EX	Execute the job	P
EXIT	Terminate SEZAM session	P
GN	Generate the job	P
ID	Show user identification	P
JOB	Finished Jobs maintenance menu	P
JOB GN	Finished generated jobs	P
JOB SA	Finished saved jobs	P
LI	List of generated jobs	P
MENU	SEZAM main menu	P
NAT	NATURAL maintenance menu	P
NCAT	NATURAL Catall command	M
NERR	NATURAL error messages maintenance	P
NINP	NATURAL INPL Utility	M
NLOD	Load NATURAL programming objects	P

NOBJ	NATURAL Object Handler	P
NSCN	NATURAL Scan command	P
NSMA	NATURAL object maintenance	P
NSYS	NATURAL system commands processing	P
NTRS	NATURAL SYSTRANS Utility	P
NULD	Unload NATURAL programming objects	P
NUSR	NATURAL user program processing	P
NUTL	NATURAL utilities processing	P
OBJ	Finished objects	P
PAT	Patterns	P
SA	Save parameter list	P
SADM	SEZAM Administration	A
SAOS	SEZAM Online ADABAS Services	P
SCMP	SEZAM Compare of Natural objects	P
SCHK	SEZAM ADABAS Checkpoint Information	P
SDEL	SEZAM Delete Utility	A
SDEL EN	SEZAM Environment Delete Utility	A
SDEL HI	SEZAM History Delete Utility	A
SDEL PA	SEZAM Parmlist Delete Utility	A
SDEL SA	SEZAM Saved Jobs Delete Utility	A
SDEL TR	SEZAM Table Delete Utility	A
SDEL US	SEZAM User Delete Utility	A
SDEV	ADABAS Device Type Calculator	P
SADM	SEZAM Administration	A
SDDM	SEZAM Natural views information	P
SEZDBID	Display active databases	P
SEZDDM	Display view control information	P
SEZFDT	Display field description table (FDT)	P
SEZFILE	Display loaded files	P
SFUN	SEZAM Special functions	P
SLOD	SEZAM Load Utility	A
SLOD EN	SEZAM Environment Load Utility	A
SLOD HI	SEZAM History Load Utility	A
SLOD PA	SEZAM Parmlist Load Utility	A
SLOD SA	SEZAM Saved Jobs Load Utility	A
SLOD TR	SEZAM Table Load Utility	A
SLOD US	SEZAM User Load Utility	A
SLST	SEZAM List Utility	A
SLST EN	SEZAM Environment List Utility	A
SLST HI	SEZAM History List Utility	A
SLST PA	SEZAM Parmlist List Utility	A
SLST SA	SEZAM Saved Jobs List Utility	A
SLST TR	SEZAM Table List Utility	A
SLST US	SEZAM User List Utility	A
SMAN	SEZAM Maintenance	P
SMAN EN	SEZAM Environment Maintenance	A
SMAN HI	SEZAM History Maintenance	A
SMAN PA	SEZAM Parmlist Maintenance	A
SMAN SA	SEZAM Saved Job Maintenance	A

SMAN TR	SEZAM Translation Table Maintenance	A
SMAN US	SEZAM User Maintenance	A
SOPT	SEZAM Installation options	P
SRET	SEZAM Retrieval menu	A
SRET CO	SEZAM Command Retrieval	A
SRET FU	SEZAM Function Retrieval	A
SRET XR	SEZAM Cross Reference	A
SU	Submit generated job	P
SULD	SEZAM Unload Utility	A
SULD EN	SEZAM Environment Unload Utility	A
SULD HI	SEZAM History Unload Utility	A
SULD PA	SEZAM Parmlist Unload Utility	A
SULD SA	SEZAM Saved Jobs Unload Utility	A
SULD TR	SEZAM Table Unload Utility	A
SULD US	SEZAM User Unload Utility	A
SUTL	SEZAM Utilities	A
SZAP	SEZAM Applied source corrections	A

Figure 5-7: Direct commands equivalent to SEZAM functions

Program Function Keys

The following program function (PF) keys appear on all SEZAM screens:

Key	Function
PF1	Help
PF3	Exit to previous screen

Other keys can appear on some screens. Available PF keys and their functions are listed on the bottom of every SEZAM screen. The extended information about PF keys assignments is provided on the SEZAM functional screens with the CM(COMMAND HELP) command (Fig. 5-6).

Getting Help

SEZAM provides the possibility of getting help on every screen.

When entered “?” , or PF1 SEZAM displays a brief information describing the screen. The „on-line help“ gives information about the individual SEZAM functions; on-line help is the very best choice when questions arise while operating SEZAM.

6. SEZAM Commands

This chapter describes the use of SEZAM Commands.

Job Processing Commands

SEZAM job processing is the facility which provides the following functions against the JCL/REXX:

- * Generation
- * Modification
- * Submitting to the operating system for execution.

The job processing commands can be entered on the functional screens in the „Command“ field on the top of screen. These commands ensure a wide range of the different ways of job processing.

EX..Execute Job Immediately Command

EX(EXECUTE JOB) command generates the job and pushes it immediately forward to the operating system for execution.

To perform the EXECUTE JOB command execute the following:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1). For example ADAREP ADABAS utility (Fig. 6-1).
- # Enter the valid ADABAS and SEZAM parameters: in the field „Environment“ should be entered the environment name where the selected function have to be executed (Fig. 6-1).
- # Enter „EX“ command.
- # Modify the displayed job statements (Fig. 6-2). During the job generation SEZAM breaks the processing and offers to change the certain JCL/REXX statements. The set of these statements is defined in the environment description. For information about the environment maintenance, consult the *SEZAM Administration Manual*.
- # Confirm the job submitting (Fig. 6-3)

After the successfully processing the following message is displayed:

SEZ0073: JCL cards submitted to operating system successfully

```

08:51:46 ----- Report / ADAREP ----- 2009-10-12
Command ==> EX

CM - Command help
.....
Parmlist destination:                               Job destination:
Parmlist name ==> _____ Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> F11177_____ / MULTI_
  Nofile                ==> Y          Cp/Cpexlist      ==> N / N
  Nostd                 ==> N          From/Todate       ==> _____ / _____
  Nolglst/Nophlist      ==> Y / Y      From/Tosession  ==> _____ / _____
  Nofdt/Noppt          ==> N / N
  File                  ==> _____
                               _____
                               _____
  No/Limcount           ==> N / _____ Savetape       ==> _____
  Offset/Layout         ==> _ / _      Plognum         ==> _____
  Output                ==> _____ Syn1/Syn4        ==> _____ / _____
  Acode                 ==> _____ Nouserabend      ==> N
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit Defaults                                     Alloc

```

Figure 6-1: ADAREP Screen with EX Command

```

14:18:34 ----- Job generation ----- 2003-08-14
Command ==>

? - Help
.....
Enter the valid JCL parameters:

//KSMFAREP JOB ( , , 999), 'KSM', CLASS=W, MSGCLASS=X_____
/* SEZ312:F11177-ADAREP(Report)_____
_____
_____
_____
_____
_____
_____
-----+-----010-----+-----020-----+-----030-----+-----040-----+-----050-----+-----060-----+-----070-----

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit

```

Figure 6-2: Job Generation screen

```

14:19:01 ----- Processing confirmation ----- 2003-08-14
Command ==>

? - Help
.....
Environment F11177      Program ADAREP REPORT

The JCL generation completed successfully

Please confirm submitting with Y
                        ==> Y

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help           Exit

```

Figure 6-3: Processing Confirmation screen

GN..Generate Job Command

GN(GENERATE JOB) command generates job and saves it as a NATURAL text object. The generated JCL/REXX can be used later.

To perform the GENERATE JOB command do the following:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1). For example ADAREP ADABAS utility (Fig. 6-4).
- # Enter ADABAS and SEZAM parameters (Fig. 6-4):
 - in the field „Environment“ should be entered the environment name where the selected function have to be processed;
 - the field „Job name“ should contain the name of NATURAL objec where the generated JCL/REXX has to be saved. If this object already exists in the current NATURAL library, it can be overwritten.
- # Enter „GN“ command.
- # Confirm save (Fig. 6-5).

After the successfully processing no messages are displayed.

```

14:24:54 ----- Report / ADAREP ----- 2003-08-14
Command ==> GN

CM - Command help
.....
Parmlist destination:                               Job destination:
Parmlist name ==> F11177_____ Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> F11177___ / MULTI_
Nofile      ==> N                      Cp/Cpexlist   ==> N / N
Nolglst     ==> N                      From/Todate   ==> _____ / _____
Nophlist    ==> N                      From/Tosession ==> _____ / _____
Nostd       ==> N
File        ==> _____
          _____
          _____
Nofdt       ==> N
Nocount     ==> N                      Savetape      ==> _____
Limcount    ==> _____ Plognum      ==> _____
Nouserabend ==> N                      Syn1/Syn4     ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit Defaults                                     Alloc

```

Figure 6-4: ADAREP Screen with GN Command

```

14:26:43 ----- Processing confirmation ----- 2003-08-14
Command ==>

? - Help
.....
Environment F11177      Program ADAREP REPORT

The JCL generation completed successfully and job will be overwritten

Please confirm with Y saving into KSM(SJDUMMY)
      ==> Y

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit

```

Figure 6-5: Processing Confirmation screen

The example of the generated job is shown in Figure 6-6.

Please pay attention to the fact that the name of the object is SJDUMMY although the name of the NATURAL object was defined as DUMMY (Fig. 6-4).

SEZAM allows only 6-bytes job names, the first two characters are filled with the settings from the user exit SN00UEX2 (default is „SJ“). For information about SEZAM user exits, refer to *SEZAM Installation Manual*.


```

> + Text          SJDUMMY Lib KSM
Top  ....+....1....+....2....+....3....+....4....+....5....+..Mode Structured.
0010 //KSMFAREP JOB (,,999), 'KSM',CLASS=W,MSGCLASS=X
0020 /* SEZ312:F11177-ADAREP(Report)
0030 /* SEZENV=F11177
0040 /*ROUTE XEQ DAEF
0050 /*JOBPARM SYSAFF=DAEF
0060 /*ROUTE PRINT DAEF
0070 //SEZADA EXEC PGM=ADARUN,REGION=8000K,TIME=1440
0080 //STEPLIB DD DSN=OPS.COMN.LOAD,DISP=SHR
0090 //          DD DSN=RZDBA.DB11177.NEWLOAD,DISP=SHR
0100 //          DD DSN=RZDBA.DB11177.LOAD,DISP=SHR
0110 //DDASSOR1 DD DSN=DB11177.ASSOR1,DISP=SHR
0120 //DDDATAR1 DD DSN=DB11177.DATAR1,DISP=SHR
0130 //DDWORKR1 DD DSN=DB11177.WORKR1,DISP=SHR
0140 //DDDRUCK DD SYSOUT=*
0150 //DDPRINT DD SYSOUT=*
0160 //DDCARD DD *
0170 ADARUN PROG=ADAREP
0180 ADARUN SVC=249
0190 ADARUN DEVICE=3390
0200 ADARUN MODE=MULTI
....+..Current Source Size: 733 Char. Free: 38532 ....+... S 24 L 1

```

Figure 6-6: Example of the generated JCL

LI..List Generated Job Command

LI(LIST GENERATED JOB) command displays the list of one or more generated jobs in the current library.

This command works on the base of the NATURAL List system command.

To perform the LIST GENERATED JOB command execute the following steps:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1), or use the Generated Jobs facility (consult section *Generated Jobs*).
For example, the ADAREP ADABAS utility was selected (Fig. 6-7).
- # Enter SEZAM parameters (Fig. 6-7): the field „Job name“ can contain the following:
 - BLANK or an asterisk (*) to display the list of all generated jobs;
 - NONBLANK to list a certain range of objects. An asterisk notation is the option to specify an asterisk (*) in the „Job name“ field; for example:

```

Job destination:
Job name ==> D*MMY*

```

- # Enter „LI“ command. The standard screen of the NATURAL List system command shows the list of the generated jobs (Fig. 6-8). On this screen are the various NATURAL system commands available (EDIT, RENAME, DELETE etc.).

After the successfully processing no messages are displayed.

```

14:36:53 ----- Report / ADAREP ----- 2003-08-14
Command ==> LI

CM - Command help
.....
Parmlist destination:                      Job destination:
Parmlist name ==> _____ Job name ==> D*MMY*
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
Nofile      ==> Y                      Cp/Cpexlist   ==> N / N
Nolglst     ==> Y                      From/Todate   ==> _____ / _____
Nophlist    ==> Y                      From/Tosession ==> _____ / _____
Nostd       ==> N
File        ==> _____
_____
Nofdt       ==> N
Nocount     ==> N                      Savetape      ==> _____
Limcount    ==> _____ Plognum        ==> _____
Nouserabend ==> N                      Syn1/Syn4     ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults                      Alloc

```

Figure 6-7: ADAREP Screen with LI Command

```

14:37:43          ***** NATURAL LIST COMMAND *****          2003-08-14
User KSM          - LIST Objects in a Library -          Library KSM

Cmd  Name      Type      S/C  SM  Version  User ID  Date      Time
---  ---      ---      ---  --  ---      ---      ---      ---
___  SJDUMMY_   *          *   *   3.1.06   KSM      2003-08-14  14:30:24
___  SJDUMMYN   Text        S   3.1.06   KSM      2003-07-10  14:58:12
___  SJDUMMY1   Text        S   3.1.06   KSM      2003-08-07  14:01:51
___  SJDUMMY2   Text        S   3.1.06   KSM      2003-06-06  11:49:27
___  SJDUMMY3   Text        S   3.1.06   KSM      2003-07-07  16:17:59

                                           5 Objects found

Top of List.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help  Print Exit          --  -  +  ++          >  Canc

```

Figure 6-8: Example of NATURAL List Command Screen

ED..Edit Generated Job Command

ED(EDIT GENERATED JOB) command performs browse and modification of the generated JCL/REXX before submitting it to the operating system for execution.

This command is realized with the standard functions of the NATURAL native, or NATURAL SPF editor.

To perform the EDIT GENERATED JOB command execute the following:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1)), or use the Generated Jobs facility (consult section *Generated Jobs*).
For example, ADAREP ADABAS utility was selected (Fig. 6-9).
- # Enter SEZAM parameters (Fig. 6-9): the field „Job name“ should contain the name of the NATURAL object with generated JCL/REXX to be browsed or modified.
- # Enter „ED“ command. The standard screen of the NATURAL editor is shown in Figure 6-6.

After the successfully processing no messages are displayed.

```

14:41:44 ----- Report / ADAREP ----- 2003-08-14
Command ==> ED

CM - Command help
.....
Parmlist destination:                      Job destination:
Parmlist name ==> _____ Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
Nofile      ==> Y                      Cp/Cpexlist   ==> N / N
Nolglst     ==> Y                      From/Todate   ==> _____ / _____
Nophlist    ==> Y                      From/Tosession ==> _____ / _____
Nostd       ==> N
File        ==> _____
_____
Nofdt       ==> N
Nocount     ==> N                      Savetape      ==> _____
Limcount    ==> _____ Plognum      ==> _____
Nouserabend ==> N                      Synl/Syn4     ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults                                     Alloc

```

Figure 6-9: ADAREP Screen with ED Command

SU..Submit Generated Job Command

SU(SUBMIT GENERATED JOB) command passes the generated JCL/REXX to the operating system for execution.

To perform the SUBMIT GENERATED JOB command execute the following steps:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1), or use the Generated Jobs facility (consult section *Generated Jobs*).
For example, ADAREP ADABAS utility was selected (Fig. 6-10).
- # Enter SEZAM parameters (Fig. 6-10): the field „Job name“ should contain the name of the NATURAL object with a generated JCL/REXX which has to submitted.
- # Enter „SU“ command.
- # Confirm submitting of the generated job to the operating system (Fig. 6-11).

After the successfully processing the following message is displayed:

SEZ0073: JCL cards submitted to operating system successfully

```

14:41:44 ----- Report / ADAREP ----- 2003-08-14
Command ==> SU

CM - Command help
.....
Parmlist destination:                               Job destination:
Parmlist name ==> _____ Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
Nofile      ==> Y                Cp/Cpexlist   ==> N / N
Nolglist    ==> Y                From/Todate    ==> _____ / _____
Nophlist    ==> Y                From/Tosession ==> _____ / _____
Nostd       ==> N
File        ==> _____
.....
Nofdt       ==> N
Nocount     ==> N                Savetape     ==> _____
Limcount    ==> _____       Plognum      ==> _____
Nouserabend ==> N                Syn1/Syn4    ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults                                     Alloc

```

Figure 6-10: ADAREP Screen with SU Command

```

14:46:42 ----- Processing confirmation ----- 2003-08-14
Command ==>

? - Help
.....
Environment F11177      Program ADAREP

The JCL generation completed successfully

Please confirm submitting with Y
====> Y

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help           Exit

```

Figure 6-11: Processing Confirmation screen

SU/SB..Submit Modified Job Commands

SU, or SB(SUBMIT MODIFIED JOB) submit the JCL/REXX from the NATURAL source area without saving a job.

The command can be entered from the command line of the NATURAL native editor (Fig. 6-6), or from the command line of the NATURAL session.

Parameter's List Processing Commands

SEZAM parameter's list facility reduces the time of ADABAS/NATURAL parameter's customizing providing the possibility to use the same set of parameters more than once.

The facility includes the following:

- * Create parameter's list
- * Update parameter's list
- * Browse parameter's list
- * Delete parameter's list

The parameter's list can be processed (saved, updated etc.) with it's name. This name is optional by the all parameter's list processing commands.

The parameter's list has its owner (i.e. user who has created it) and can be processed only from the screen of the corresponding ADABAS/NATURAL function.

The parameter's list processing commands can be entered on the functional screens in the „Command“ field on the top of the screen.

SA..Save Parameter's List

SA(SAVE PARAMETER'S LIST) command creates a new and updates an already existed parameter's list.

To perform the SAVE PARAMETER'S LIST command execute the following:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1). For example ADAREP ADABAS Utility (Fig. 6-12).
- # Enter ADABAS and SEZAM parameters: in the field „Parmlist name“ can be entered the name of the parameter's list, which have to be created or updated (Fig. 6-12). This parameter can be omitted.
- # Enter „SA“ command. The execution against the already existed parameter's list updates it's contents.
- # If the „Parmlist name“ is omitted all parameter's lists belonging to the current user and connected with the current ADABAS/NATURAL function will be shown (Fig. 6-13). On this screen you can select with a non-blank character one of the following parameter's lists. The current command (Save) is displayed in the field „Parmlist command“.

After the successfully processing the following messages are displayed:

SEZ0084: Parameter list saved successfully

or:

SEZ0082: Parameter list updated successfully

```

15:21:45 ----- Report / ADAREP ----- 2003-08-14
Command ==> SA

CM - Command help
.....
Parmlist destination:                               Job destination:
  Parmlist name ==> PRM01                             Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
  Nofile      ==> N                                Cp/Cpexlist   ==> N / N
  Nolglst     ==> Y                                From/Todate   ==> _____ / _____
  Nophlist    ==> Y                                From/Tosession ==> _____ / _____
  Nostd       ==> N
  File        ==> 1,3,13,17_____
  _____
  _____
  Nofdt       ==> N
  Nocount     ==> N                                Savetape      ==> _____
  Limcount    ==> _____                        Plognum       ==> _____
  Nouserabend ==> N                                Syn1/Syn4     ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults                                     Alloc

```

Figure 6-12: ADAREP Screen with SA Command

```

15:23:07 ----- Parameter's list ----- 2003-08-14
Command ==> SCROLL ==> PAGE

CM - Command help
.....
Parmlist command ==> Save

Sel   Parmlist Name
---   -----
-     PRM01
-     REP-CHECKPOINTS ONLY
-     REP-FILES ONLY
-     REP-SHORT
-     SAVETAPE
-     SEZUNLOAD
-     SHORT
-     S069
-     S088
-     T103

Total records ==> 20
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Refresh                                     +

```

Figure 6-13: Parameter's List Screen with SA Command

BR..Browse Parameter's List

BR(BROWSE PARAMETER'S LIST) command displays the contents of the parameter's list on the current functional screen.

To perform the BROWSE PARAMETER'S LIST command take the following steps:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1). For example ADAREP ADABAS utility (Fig. 6-14).
- # Enter ADABAS and SEZAM parameters: in the field „Parmlist name“ can be entered the name of parameter's list, which contents have to be displayed (Fig. 6-14). This parameter can be omitted.
- # Enter „BR“ command.
- # If the „Parmlist name“ is omitted all parameter's lists belonging to the current user and connected with the current ADABAS/NATURAL function will be shown (Fig. 6-15). On this screen you can select with a non-blank character one of the following parameter's lists. The current command (Browse) is displayed in the field „Parmlist command“.

After the successfully processing the contents of the selected parameter's list will be displayed on the current functional screen (Fig. 6-16) and the following message is displayed:

SEZ0085: Parameter list browsed successfully

```

15:25:28 ----- Report / ADAREP ----- 2003-08-14
Command ==> BR

CM - Command help
.....
Parmlist destination:                               Job destination:
Parmlist name ==> PRM01                               Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
Nofile      ==> Y                               Cp/Cpexlist  ==> N / N
Nolglist    ==> Y                               From/Todate   ==> _____ / _____
Nophlist    ==> Y                               From/Tosession ==> _____ / _____
Nostd       ==> N
File        ==> _____
.....
Nofdt       ==> N
Nocount     ==> N                               Savetape     ==> _____
Limcount    ==> _____                     Plognum      ==> _____
Nouserabend ==> N                               Syn1/Syn4    ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults                                     Alloc

```

Figure 6-14: ADAREP Screen with BR Command (before command execution)


```

15:26:07 ----- Parameter's list ----- 2003-08-14
Command ==>
                                SCROLL ==> PAGE

CM - Command help
.....
Parmlist command ==> Browse

Sel   Parmlist Name
---   -----
X    PRM01
-      REP-CHECKPOINTS ONLY
-      REP-FILES ONLY
-      REP-SHORT
-      SAVETAPE
-      SEZUNLOAD
-      SHORT
-      S069
-      S088
-      T103

Total records ==> 20
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Refresh      +      Delete

```

Figure 6-15: Parameter's List Screen with BR Command

```

15:27:42 ----- Report / ADAREP ----- 2003-08-14
Command ==>

CM - Command help
.....
Parmlist destination:                Job destination:
  Parmlist name ==> PRM01_____      Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> F11177____ / MULTI_
  Nofile      ==> N                  Cp/Cpexlist   ==> N / N
  Nolglst     ==> Y                  From/Todate   ==> _____ / _____
  Nophlist    ==> Y                  From/Tosession ==> _____ / _____
  Nostd       ==> N
  File        ==> 1,3,13,17_____
                                     _____
                                     _____
  Nofdt       ==> N
  Nocount     ==> N                  Savetape     ==> _____
  Limcount    ==> _____          Plognum      ==> _____
  Nouserabend ==> N                  Syn1/Syn4    ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Defaults      Alloc

```

Figure 6-16: ADAREP Screen with BR Command (after command execution)

DE..Delete Parameter's List

DE(DELETE PARAMETER'S LIST) command deletes the parameter's list.

To perform the DELETE PARAMETER'S LIST command execute the following:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1). For example ADAREP ADABAS utility (Fig. 6-17).
- # Enter ADABAS and SEZAM parameters: in the field „Parmlist name“ can be entered the name of parameter's list, which have to be deleted (Fig. 6-17). This parameter can be omitted.
- # Enter „DE“ command.
- # If the "Parmlist name" is omitted all parameter's lists belonging to the current user and connected with the current ADABAS/NATURAL function will be shown (Fig. 6-18). On this screen you can select with a non-blank character one of the following parameter's lists. The current command (Delete) is displayed in the field "Parmlist command". The delete has to be confirmed with the parmlist's name.

After the successfully processing the following message is displayed:

SEZ0086: Parameter list deleted successfully

```

15:29:27 ----- Report / ADAREP ----- 2003-08-14
Command ==> DE

CM - Command help
.....
Parmlist destination:                               Job destination:
Parmlist name ==> PRM01                             Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
Nofile      ==> Y                               Cp/Cpexlist  ==> N / N
Nolglst     ==> Y                               From/Todate   ==> _____ / _____
Nophlist    ==> Y                               From/Tosession ==> _____ / _____
Nostd       ==> N
File        ==> _____
_____
_____

Nofdt       ==> N
Nocount     ==> N                               Savetape      ==> _____
Limcount    ==> _____                     Plognum       ==> _____
Nouserabend ==> N                               Syn1/Syn4     ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults                                     Alloc

```

Figure 6-17: ADAREP Screen with DE Command

```

15:29:58 ----- Parameter's list ----- 2003-08-14
Command ==>                                SCROLL ==> PAGE

CM - Command help
.....
Parmlist command ==> Delete

Sel      Parmlist Name
-----
X      PRM01
-      REP-CHECKPOINTS ONLY
-      REP-FILES ONLY
-      REP-SHORT
-      SAVETAPE
-      SEZUNLOAD
-      SHORT
-      S069
-      S088
-      T103

Total records ==> 20
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Refresh      +      Browse

```

Figure 6-18: Parameter's List Screen with DE Command

Other Commands

This commands can be entered in the functional screens in the „Command“ field at the top of screen.

CM..Show Command's Help

CM(SHOW COMMAND'S HELP) command displays the description of currently available SEZAM commands and PF keys.

To perform the SHOW COMMAND'S HELP command execute the following:

- # Select the SEZAM functional screen. For example, ADAREP ADABAS utility was selected (Fig. 6-19).
- # Enter „CM“ command. The example of the command's help screen is shown in Figure 6-20.

After the successfully processing no messages are displayed.

```

15:33:49 ----- Report / ADAREP ----- 2003-08-14
Command ==> CM

CM - Command help
.....
Parmlist destination:                      Job destination:
Parmlist name ==> _____ Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
Nofile      ==> Y                      Cp/Cpexlist   ==> N / N
Nolglist    ==> Y                      From/Todate   ==> _____ / _____
Nophlist    ==> Y                      From/Tosession ==> _____ / _____
Nostd       ==> N
File        ==> _____
_____
Nofdt       ==> N
Nocount     ==> N                      Savetape      ==> _____
Limcount    ==> _____ Plognum        ==> _____
Nouserabend ==> N                      Syn1/Syn4     ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit Defaults                                     Alloc

```

Figure 6-19: ADAREP Screen with CM Command

```

15:34:13 ----- Commands ----- 2003-08-14
Parameter list maintenance:
SA/BR/DE - save/browse/delete parameter list
Job generation maintenance:
EX - generate job and execute immediately
GN - generate job in natural object, specified by JOBNAME parameter
ED - edit already generated job, specified by JOBNAME parameter
SU - submit already generated job from natural object, specified by
    JOBNAME parameter
LI - browse already generated job (specified by JOBNAME parameter),
    or browse the list of all already generated jobs (parameter JOBNAME
    is empty)
Others:
CL/CD - available command's/global direct command's list
ID - browse authorization of the current user in the specified env.
PF-Keys:
PF1 - help
PF3 - processing termination
PF4 - default values
PF12 - JCL requirements processing

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
Exit

```

Figure 6-20: Example of Command's Help Screen

CL..Show Command's List

CL(SHOW COMMAND'S LIST) command displays the list of all available commands and allows to select the command from the list.

To perform the SHOW COMMAND'S LIST command execute the following:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1); for example, ADAREP ADABAS utility (Fig. 6-21).
- # Enter „CL“ command.
- # Select an appropriate command from the list of the commands with the non-blank symbol against the desired command, or use the cursor selection (Fig. 6-22).

If the contents of the I(Identification) field is blank, it means that the entire command has to be identical to the command from the command's list; for example: PROFILE, GLOBALS, BR etc. Otherwise only the visual part of the command must be identical to the command from the command's list; for example: LIST VIEW, LIST VIEW, HELP 3148 etc.

After the successfully processing no messages are displayed.

```

16:23:00 ----- Report / ADAREP ----- 2003-08-14
Command ==> CL

CM - Command help
.....
Parmlist destination:                      Job destination:
  Parmlist name ==> _____ Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
  Nofile      ==> Y                      Cp/Cpexlist   ==> N / N
  Nolglst     ==> Y                      From/Todate   ==> _____ / _____
  Nophlist    ==> Y                      From/Tosession ==> _____ / _____
  Nostd       ==> N
  File        ==> _____
  _____
  _____
  Nofdt       ==> N
  Nocount     ==> N                      Savetape     ==> _____
  Limcount    ==> _____ Plognum      ==> _____
  Nouserabend ==> N                      Synl/Syn4    ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults                                     Alloc

```

Figure 6-21: ADAREP Screen with CL Command

```

16:23:33 ----- Command list ----- 2003-08-14
Command ==>
SCROLL ==> PAGE

? - Help
.....
Sel  Command Name      I  Command Description
---  -
-    CL                -  Browse command list
-    CM                -  Command help
-    BR                -  Browse parameter list
-    DE                -  Delete parameter list
-    ED                -  Edit generated job
-    EX                -  Execute the job
-    GN                -  Generate the job
-    ID                -  Show user identification
-    LI                -  List of generated jobs
-    SA                -  Save parameter list
-    SU                -  Submit generated job
-    CD                -  Browse global direct command list

Total records ==> 25
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Refresh                                     +

```

Figure 6-22: Command's List Screen

CD..Show Direct Command's List

CD(SHOW DIRECT COMMAND'S LIST) command displays the list of all available direct commands and allows to select the command from the list.

The list of the direct commands and the reaction of SEZAM on the entered command depend on the user's type.

To perform the SHOW DIRECT COMMAND'S LIST command execute the following:

- # Enter on the function or menu screen „CD“ command.
- # Select the appropriate direct command from the list of commands with the non-blank symbol against the desired command (Fig. 6-23).

```

16:25:26 ----- Direct command list ----- 2003-08-14
Command ==> SCROLL ==> PAGE

? - Help
.....
Sel  Command Name      Command Description
-----
-    ADA                ADABAS maintenance menu
-    NAT                NATURAL maintenance menu
-    JOB                Finished Jobs maintenance menu
-    MENU               SEZAM main menu
-    EXIT               Terminate SEZAM session
-    ADACMP              ADACMP Compress/Decompress
-    ADADBS              ADADBS Database services
-    ADADEF              ADADEF Database definition
-    ADAFRM              ADAFRM Format
-    ADAINV              ADAINV Invert
-    ADALOD              ADALOD Loader
-    ADAORD              ADAORD Reorder

Total records ==> 93
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Refresh      +

```

Figure 6-23: Example of CD Command

ID..Show User's Authority

ID(SHOW USER'S AUTHORITY) command displays the user's identification information and makes it possible to browse through the allowed ADABAS/NATURAL functions.

To perform the SHOW USER'S AUTHORITY command take the next steps:

- # Perform one of the following:
 - select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1); for example, ADAREP ADABAS utility (Fig. 6-24) and enter „ID“ Command;
 - on the startup menu enter the corresponding function code of the „Authorities“ function. The startup menu for the MANAGER is shown in Figure 6-25.
- # On the user authorization screen (Fig. 6-26) are listed all the environments where the user is defined. For example, user KSMM can operate:
 - with the environments A001 and F080 as MANAGER;
 - with the environment F11177 as PERSON with ADABAS files 5, 6 and 7.
- # To display the detailed user information for the corresponding environment enter US(DISPLAY USER INFORMATION) command against the selected user's entry (Fig. 6-26). The examples of Browse Manager and Browse Person screens are shown in Figure 6-27, 6-28. After the successfully processing the following message is displayed:

SEZ0014: User browsed successfully

- # To browse the set of the ADABAS/NATURAL functions available for the user within the specified environment enter FU(SHOW AVAILABLE FUNCTIONS) command on the user authorization screen (Fig. 6-26). The example of allowed function's list screen for PERSON is shown in Figure 6-29. After the successfully processing the following message is displayed:

SEZ0099: List of allowed functions browsed successfully

- # To display the description of the SEZAM environment enter EN(DISPLAY ENVIRONMENT DESCRIPTION) command on the user authorization screen (Fig. 6-26). The example of the environment description is shown in Figure 6-30. After the successfully processing the following message is displayed:

SEZ0371: Description browsed successfully

- # ID command allows selecting the environment for the further processing with the ADABAS/NATURAL function (Fig. 6-24).
To do it enter SE(SELECT ENVIRONMENT) command on the user authorization screen (Fig. 6-26).

```

16:28:29 ----- Report / ADAREP ----- 2003-08-14
Command ==> ID

CM - Command help
.....
Parmlist destination:                               Job destination:
  Parmlist name ==> _____ Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
Nofile      ==> Y                      Cp/Cpexlist   ==> N / N
Nolglst     ==> Y                      From/Todate   ==> _____ / _____
Nophlist    ==> Y                      From/Tosession ==> _____ / _____
Nostd       ==> N
File        ==> _____
          _____
          _____
Nofdt       ==> N
Nocount     ==> N                      Savetape     ==> _____
Limcount    ==> _____ Plognum      ==> _____
Nouserabend ==> N                      Syn1/Syn4    ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit Defaults                                     Alloc

```

Figure 6-24: ADAREP Screen with ID Command

```

16:29:18 ----- Manager Startup Menu ----- 2003-08-14
Function ==> 7

_ 1 SEZAM maintenance
_ 2 ADABAS maintenance
_ 3 ADABAS EVENT REPLICATOR maintenance
_ 4 NATURAL maintenance
_ 5 Finished objects
_ 6 Special functions
_ 7 Authorities

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit

```

Figure 6-25: Manager Startup Menu

```

16:29:49 ----- User authorization ----- 2003-08-14
Command ==>
                                SCROLL ==> PAGE

CM - Command help
.....
User ==> KSMM

Co  T Env.      Description      File list      Date      Created
--  - - - - -
___ M A001      daea Application      2003-03-21 KSM
___ M F080      daef DBA              2003-03-21 KSM
US  P F11177    daef General          5,6,7          2003-03-21 KSM

Total records ==> 3
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Refr

```

Figure 6-26: User Authorization Screen

```

16:34:46 ----- User maintenance / Browse manager ----- 2003-08-14
Command ==>

? - Help
.....

User name      ==> KSMM
Environment    ==> F080
User info      ==> 'KSM'
User type      ==> M
Date of creation ==> 2003-03-21
Created by     ==> KSM

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit

```

Figure 6-27: Browse MANAGER Screen

```

16:31:32 ----- User maintenance / Browse expert(person) ----- 2003-08-14
Command ==>

? - Help
.....
User name      ==> KSM
User info      ==> 'KSM'
User type      ==> P           Environment ==> F11177
Date of creation ==> 2003-03-21   Created by ==> KSM
File list:
5
6
7

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit

```

Figure 6-28: Browse EXPERT/PERSON Screen

```

16:33:55 ----- Allowed function's list ----- 2003-08-14
Command ==>                                SCROLL ==> PAGE

CM - Command help
.....
Environment ==> F11177
User type    ==> P
Index        Utility/function
-----
 1  ADACMP COMPRESS
 2  ADACMP DECOMPRESS
 3  ADADBS DSREUSE
 4  ADADBS ISNREUSE
 5  ADADBS RENAME
 6  ADAREP
 7  ADAULD
 8  NATUNLD
 9  NATLOAD
10  ERRULDUS

Total records ==> 16
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Refr      +

```

Figure 6-29: Allowed Function's Screen for EXPERT/PERSON

```
16:45:44 ----- Environment maintenance / Display description ----- 2003-08-14
Command ==>

? - Help
.....
Environment ==> F11177

Description records:
  Hdr daef General
0001 Contact persons: KSM/SAL
0002 Comments:
0003 Natural 2.3 System Files
0004 Natural 3.1 System Files
0005 Natural 4.1 System Files
0006
0007
0008
0009
0010
0011

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit
```

Figure 6-30: Environment Description Screen

External Commands

The set of SEZAM Commands (such as EX/GN/SU etc.) can be increased with the number of external non-SEZAM commands, for example: SPF, SCAN, CATAL, etc.

The set of external commands can be dynamically changed. For information about the maintenance of external commands, consult the *SEZAM Installation Manual*.

The external commands can be entered in the functional screens in the „Command“ field on the top of screen.

The CL(SHOW COMMAND'S LIST) command makes possible to browse through the list of all available commands including the external commands and to select the appropriate command.

To perform the external command execute the following steps:

- # Select the ADABAS/NATURAL MAINTENANCE function (Fig. 3-1); for example ADAREP ADABAS utility.
- # Enter external command, for example „SPF“ (Fig. 6-30).

```

16:50:19 ----- Report / ADAREP ----- 2003-08-14
Command ==> SPF

CM - Command help
.....
Parmlist destination:                               Job destination:
  Parmlist name ==> _____  Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> _____ / MULTI_
  Nofile      ==> Y                Cp/Cpexlist   ==> N / N
  Nolglst     ==> Y                From/Todate    ==> _____ / _____
  Nophlist    ==> Y                From/Tosession ==> _____ / _____
  Nostd       ==> N
  File        ==> _____
  _____
  Nofdt       ==> N
  Nocount     ==> N                Savetape     ==> _____
  Limcount    ==> _____        Plognum      ==> _____
  Nouserabend ==> N                Synl/Syn4    ==> _____ / _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults                                     Alloc

```

Figure 6-30: ADAREP Screen with SPF External Command

7. ADABAS and ADABAS Event Replicator Maintenance

The ADABAS maintenance is the facility which allows to generate and execute JCL/REXX for the ADABAS utilities. The ADABAS Event Replicator maintenance is the facility which allows to generate and execute JCL/REXX for the ADABAS Event Replicator utilities, or for the ADABAS utilities with the specific parameters for the Event Replicator.

The set of ADABAS utilities depends on the user type. The ADABAS Event Replicator maintenance is only available for the users type Administrator, or Manager. The overview of the ADABAS utilities for the different user's types is shown in Figures 7-1, 7-2, 7-3, 7-4.

ADABAS utility screens are designed to provide the possibility of entering at the first time the most useful parameters. The other parameters can be processed separately on the ADABAS utility additional screens.

The following program function (PF) keys can be available on ADABAS Utility functional screens:

Key	Function
PF1	Help
PF3	Exit to previous screen
PF4	Set default values of ADABAS utility parameters
PF7	Define the additional parameters of ADABAS utility
PF11	SEZAM add-on for the ADABAS utility
PF12	Allocate required and optional datasets for the ADABAS utility (can be processed automatically, for more information about customizing please refer to <i>Sezam Installation Manual</i>)

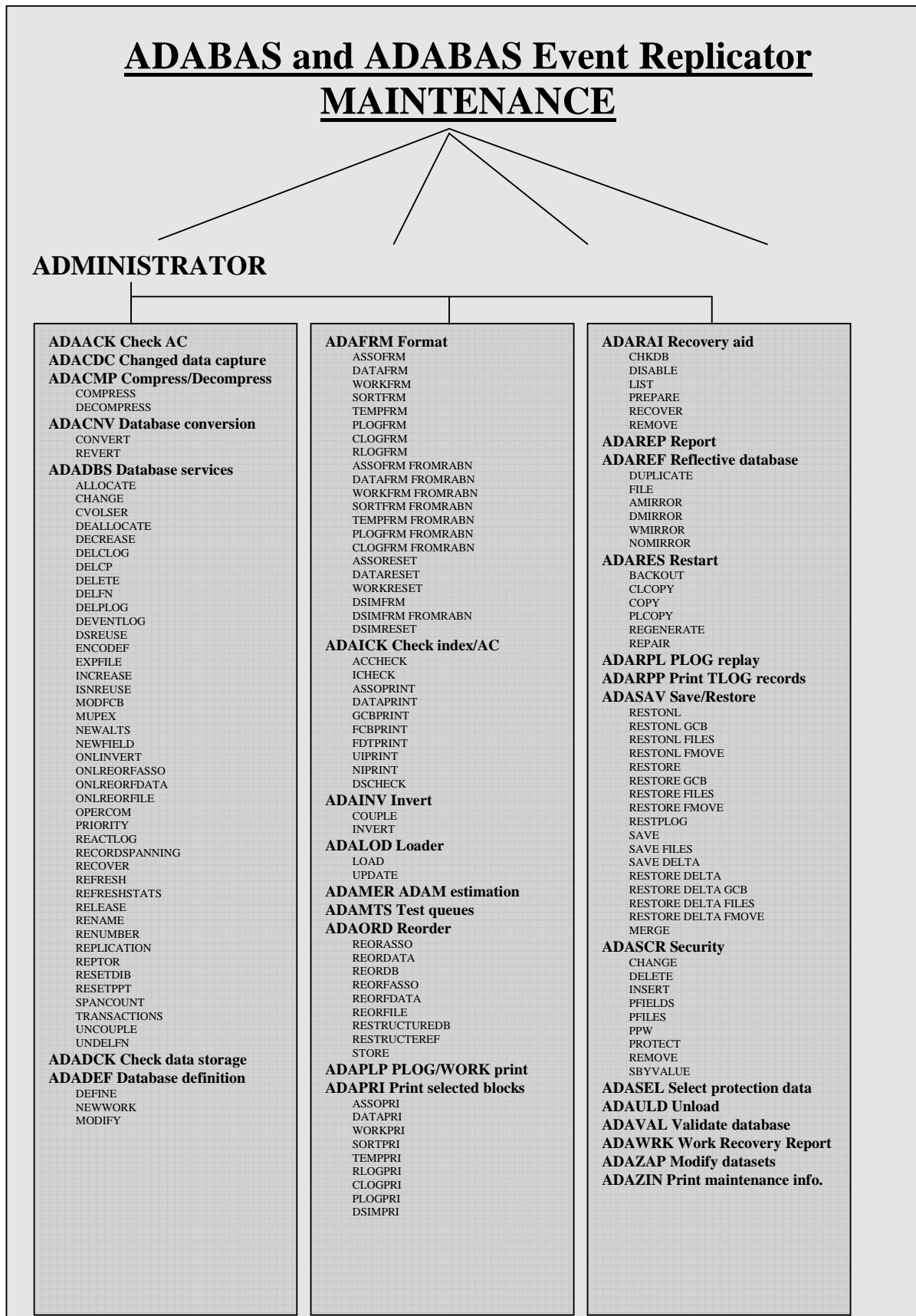


Figure 7-1: Overview of ADABAS Maintenance functions for ADMINISTRATOR

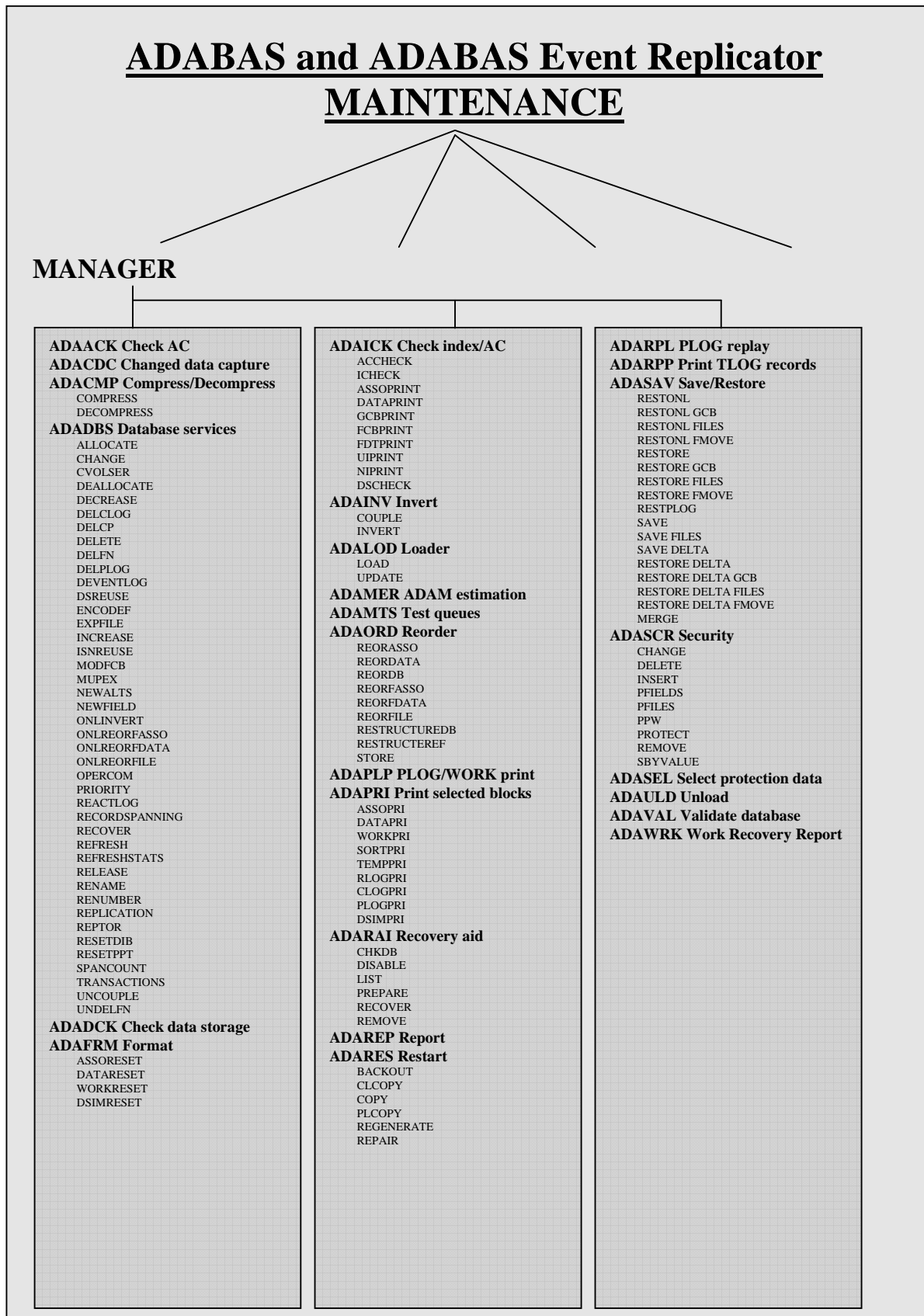


Figure 7-2: Overview of ADABAS Maintenance functions for MANAGER

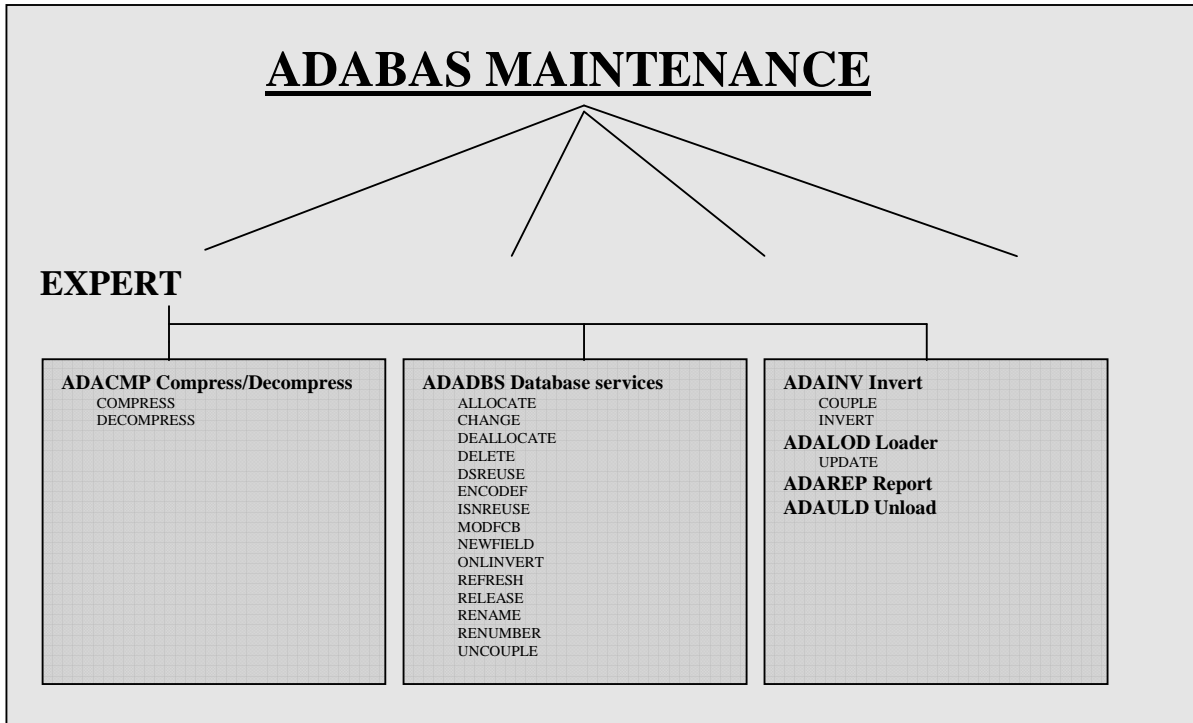


Figure 7-3: Overview of ADABAS Maintenance functions for EXPERT

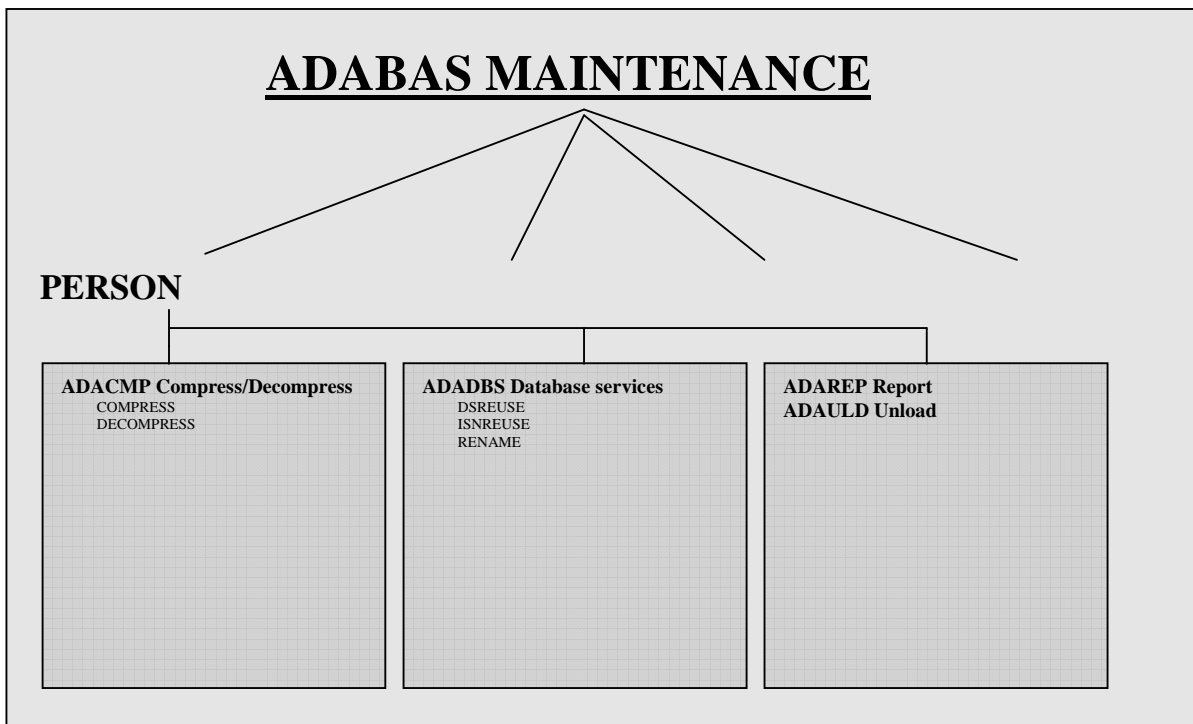


Figure 7-4: Overview of ADABAS Maintenance functions for PERSON

To execute the ADABAS Maintenance functions perform the following:

- # Enter in the „Function“ field the corresponding number of the „ADABAS maintenance“ function on the startup menu. The example of the startup menu is shown in Figure 7-5.
- # Select the ADABAS utility by entering its corresponding number in the „Function“ field of ADABAS utilities menu; for example ADALOD Loader utility (Fig. 7-6).
- # Select the function (if exists) of the ADABAS utility; for example: ADALOD LOAD (Fig. 7-7).
- # Enter the required and optional ADABAS utility parameters on the functional screen (Fig. 7-8). The step can be done with the help of parameter's list commands (SA/BR/DE). For information about parameter's list commands consult the section *SEZAM Commands*.
- # If the need arises, provide the ADABAS utility additional parameters which usually don't present on the ADABAS utility screen (Fig. 7-8). To process the additional parameters do the following:
 - press PF7 to get the ADABAS utility additional functional screen (Fig. 7-9);
 - enter the additional parameters; for example „NUMREC=10000“ (Fig. 7-9). The additional parameters can be processed with the help of parameter's list commands (SA/BR/DE);
 - press PF6 to accept the entered values. The following message is displayed:

SEZ0092: Additional parameters accepted successfully

- press PF3 to exit the additional parameters processing.

For the utilities, all parameters of which can be placed on the single screen, there is no necessity to divide the utility parameters into utility screen and utility additional screen. For this utilities the PF7 assignment is missing; for example, ADAREP (Report Generator).

- # Out of necessity allocate the datasets which are required for some of ADABAS utilities. For example, for the ADALOD (LOAD) the following datasets are to be allocated:
 - DDEBAND (Compressed Data), is required;
 - DDFILEA (Temp Overflow), is optional.

The dataset allocation can be processed, depending on the SEZAM system settings, in two different ways:

- automatically, i.e. SEZAM starts the processing on his own, or
- manually, when the processing is started with pressing PF12 function key.

For more information about this feature refer to *Setting Defaults* in *SEZAM Installation Manual*.

The following information is displayed (Fig. 7-10):

1. Environment where the utility have to be executed (DB001):

***Environment/Program/Function** ===> **DB001** / ADALOD / Load*

2. The ADABAS utility which have to be executed (ADALOD):

*Environment/**Program**/Function ===> DB001 / **ADALOD** / Load*

3. The ADABAS utility function which have to be executed (Load):

*Environment/Program/**Function** ===> DB001 / ADALOD / **Load***

4. The total number of all/required datasets which have to be allocated (2/1):

***Dataset** ===> 1 / 2
Required ===> 0 / 1*

5. The current number of dataset which have to be allocated on the current screen (1):

***Dataset** ===> 1 / 2*

6. The DD Name (z/OS), Symbolic Name (z/VSE) or Link Name (BS2000/OSD) and the purpose of the dataset, which is to allocated on the current screen (EBAND / COMPRESSED DATA):

DDname/Purpose** ===> **EBAND** / **COMPRESSED DATA

7. The allocation information (Required):

Allocation ===> Required

The required datasets must be allocated, the optional - can be allocated.

- press PF4 to get the default settings of JCL/REXX statements, or enter the JCL/REXX statements manually (Fig. 7-10). Use the parameter's list commands (SA/BR/DE) to simplify the processing.

- press PF6 to accept the entered JCL/REXX statements. The following message is displayed:

SEZ0088: Dataset allocation accepted successfully

- if the total number of the datasets is more than one, use PF11/PF12 keys to scroll forward and backward through the dataset list. For example pressing PF12 on the screen (Fig. 7-10) causes the appearance of the next screen (Fig. 7-11), where the JCL/REXX statements for the next dataset (FILEA) have to be entered.

- press PF3 to exit the datasets processing.

An attempt to start the utility without required dataset allocation causes the processing error with the following message:

SEZ0090: JCL requirements not completed

For the utilities which does not require the dataset allocation, there is no PF12 assignment on the ADABAS utility functional screen; for example, ADAREP (Report Generator).

Enter the job processing command for JCL/REXX execution (EX) or generation (GN). For information about job processing commands consult the section *SEZAM Commands*.

```

16:07:21 ----- Administrator Startup Menu ----- 2003-08-14
Function ==> 2

_ 1 SEZAM administration
_ 2 ADABAS maintenance
_ 3 ADABAS EVENT REPLICATOR maintenance
_ 4 NATURAL maintenance
_ 5 Finished objects
_ 6 Special functions
_ 7 Authorities

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 7-5: Example of Administrator Startup menu

```

09:33:44 ----- Adabas maintenance / Administrator menu ----- 2009-10-28
Function ==> 11

_ 1 ADAACK Check address converter      _ 15 ADAPRI Print selected blocks
_ 2 ADACDC Changed data capture         _ 16 ADARAI Recovery aid
_ 3 ADACMP Compress/Decompress          _ 17 ADAREP Report
_ 4 ADACNV Database conversion          _ 18 ADAREF Reflective database
_ 5 ADADBS Database services            _ 19 ADARES Restart
_ 6 ADADCK Check data storage            _ 20 ADASAV Save/Restore
_ 7 ADADEF Database definition           _ 21 ADASCR Security
_ 8 ADAFRM Format                       _ 22 ADASEL Select protection data
_ 9 ADAICK Check index/AC               _ 23 ADAULD Unload
_ 10 ADAINV Invert                     _ 24 ADAVAL Validate database
_ 11 ADALOD Loader                      _ 25 ADAWRK Work recovery report
_ 12 ADAMER ADAM estimation              _ 26 ADAZAP Modify datasets
_ 13 ADAORD Reorder                     _ 27 ADAZIN Print maintenance
_ 14 ADAPLP Protection log/WORK print   _ 28 ADA... Any utility

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 7-6: ADABAS Utilities Menu

```

16:11:43 ----- Loader / ADALOD ----- 2003-08-14
Function ==> 1

_ 1 LOAD   - loading a file into the database
_ 2 UPDATE - adding/deleting records to/from an existing file

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit

```

Figure 7-7: ADALOD menu

```

16:13:38 ----- Loader / ADALOD(LOAD) ----- 2003-08-14
Command ==>

CM - Command help
.....
Parmlist destination:                      Job destination:
Parmlist name ==> _____ Job name ==> _____
.....
Utility parameters:
Environment/AdarunMode ==> DB001 / MULTI_
File/Name/Type ==> 2____ / EMPLOYEES____ / _____
Asso/Datavolume ==> _____ / _____
DS/NI/UI/ACravn ==> _____ / _____ / _____ / _____
Allocation ==> _____
DS/NI/UISize ==> 75B____ / 50B____ / 15B____
MaxDS/NI/UI ==> _____ / _____ / _____
Maxisn/Isnsize ==> 1500____ / 3
Isn/DSreuse ==> YES / YES
Asso/Datapfac ==> 3_ / 3_
Sortsize/Dev ==> 100____ / 3390 Nouserabend ==> Y
Tempsize/Dev ==> 100____ / 3390 Test ==> N
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit Defaults AddOp1 AddOp2 Alloc

```

Figure 7-8: ADALOD (LOAD) Screen

```

16:14:35 ----- Additional parameters / ADALOD(LOAD) ----- 2003-08-14
Command ==>

CM - Command help
.....
Parmlist destination:
  Parmlist name ==> _____
.....
Utility additional parameters:
  Adamfile ==> _          Anchor ==> _____
  Adamde   ==> _          Minisn ==> _____
  Adamoflow ==> _____ Filecrit ==> _____
  Adamparm ==> _          Fileval  ==> _____
  Datafrm  ==> _          _____
  Numrec   ==> 10000      Etid/Lownerid ==> _____ / _
  Maxrecl  ==> _____ DSdev/Mixdsdev ==> _____ / _
  Skiprec  ==> _____
  Ignfdt   ==> _          Uqde    ==> _____
  Userisn  ==> _          Noacextension ==> _      Lip ==> _____
  Version  ==> _          Pgmrefresh ==> _      Lwp ==> _____
  Restart  ==> _          Indexcompression ==> _
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Defaults  Accept

```

Figure 7-9: ADALOD (LOAD) Additional Parameters Screen

```

16:18:29 ----- Dataset allocation ----- 2003-08-14
Command ==>
Dataset ==> 1 / 2
Required ==> 0 / 1

CM - Command help
.....
Parmlist destination:
  Parmlist name ==> T/EXTERN_____
.....
Environment/Program/Function ==> DB001 / ADALOD / Load
DDname/Purpose ==> EBAND / Compressed data
Allocation ==> Required
Enter the dataset value:
//DDEBAND DD DSN=ADA712.ALLEMP,DISP=OLD,_____
// UNIT=3480,LABEL=(1,SL),_____
// VOL=(,RETAIN,,,SER=(VOL001))_____
_____
_____
_____
-----+-----010-----+-----020-----+-----030-----+-----040-----+-----050-----+-----060-----+-----070--
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Defaults  Accept      >

```

Figure 7-10: ADALOD (LOAD) Dataset Allocation (EBAND) Screen

```

16:21:41 ----- Dataset allocation ----- 2003-08-14
Command ==>                                     Dataset ==> 2 / 2
                                           Required ==> 0 / 1

CM - Command help
.....
Parmlist destination:
  Parmlist name ==> _____
.....
Environment/Program/Function ==> DB001 / ADALOD / Load
DDname/Purpose      ==> FILEA / Temp overflow
Required/Optional ==> Optional
Enter the dataset value:
_____
_____
_____
_____
_____
_____
_____
-----010-----020-----030-----040-----050-----060-----070--
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Defaults  Accept      <

```

Figure 7-11: ADALOD (LOAD) Dataset Allocation (FILEA) Screen

8. NATURAL Maintenance

The NATURAL maintenance is the facility which allows to generate and execute the jobs for the NATURAL utilities, NATURAL system command and NATURAL user programs. The overview of NATURAL maintenance functions is shown in Figure 8-1.

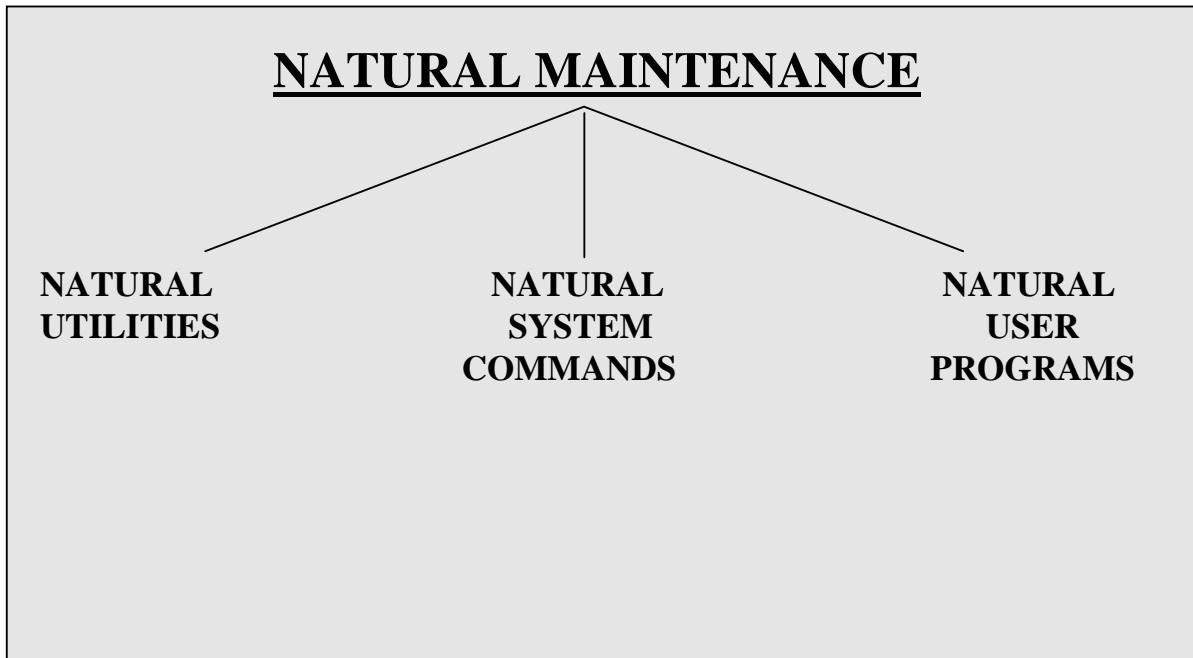


Figure 8-1: Overview of NATURAL Maintenance functions

NATURAL Utilities

The set of NATURAL utilities does not depend on the user type. An overview of the NATURAL utilities is shown in Figures 8-2.

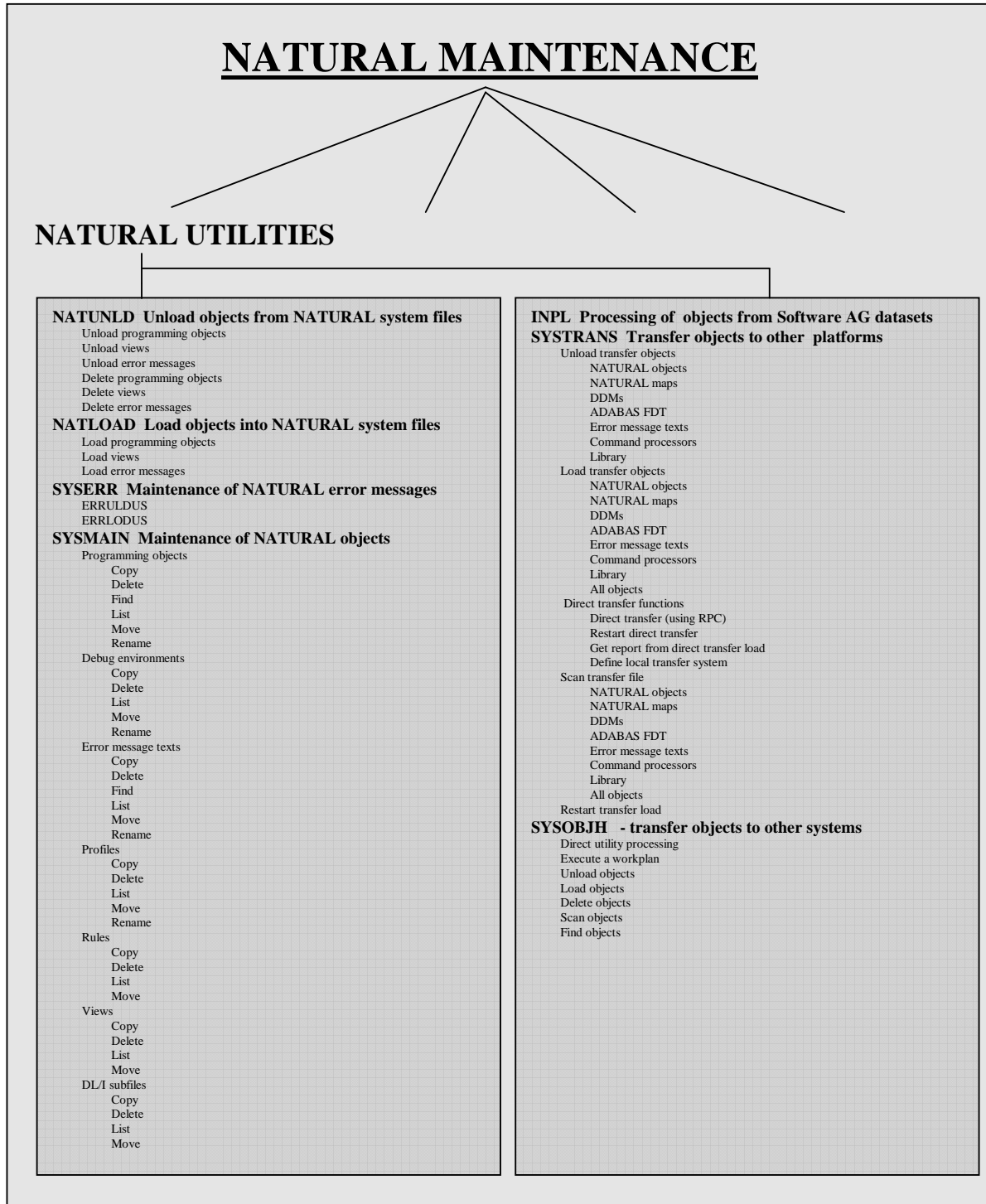


Figure 8-2: Overview of NATURAL Utilities functions
NATURAL utility screens provide the processing of utility parameters together with WHERE, WITH and EXCEPT clauses.

The following program function (PF) keys can be available on NATURAL utility functional screens:

Key	Function
PF1	Help
PF3	Exit to previous screen
PF4	Set default values of NATURAL utility parameters
PF7	Define the source where-clause of NATURAL utility
PF8	Define the target where-clause of NATURAL utility
PF9	Define the with-clause of NATURAL utility
PF11	Define the except-clause of NATURAL utility, or SEZAM add-on for the NATURAL utility
PF12	Allocate required and optional datasets for the NATURAL utility

To execute the NATURAL utility perform the following:

- # Enter on the startup menu (Fig. 8-3) in the „Function“ field the corresponding number of the „NATURAL maintenance“ function.
- # Enter on the NATURAL maintenance menu (Fig. 8-4) in the „Function“ field the corresponding number of the „NATURAL utilities“ function.
- # Select NATURAL utility using cursor, or by entering the corresponding number in the „Function“ field on the NATURAL utilities menu (Fig. 8-5); for example: NATUNLD utility.
- # Select the function (if any) of the NATURAL utility; for example:
UNLOAD PROGRAMMING OBJECTS (Fig. 8-6).
- # Enter the required and optional NATURAL utility parameters on the functional screen (Fig. 8-7). The step can be executed with the help of parameter's list commands (SA/BR/DE). For information about parameter's list commands consult the section *SEZAM Commands*.

- # If the need arises enter WHERE, WITH, or EXCEPT clauses.
For example to process the WHERE clause do the following:
- press PF7 to get the WHERE clause functional screen (Fig. 8-8);
 - enter the WHERE clause parameters; for example „FNR=7“ (Fig. 8-8).
- The WHERE clause parameters can be entered with the help of parameter's list commands (SA/BR/DE);
- press PF6 to accept the entered values. The following message is displayed:

SEZ0092: Additional parameters accepted successfully

- press PF3 to exit the processing.

For the utilities without any clauses the corresponding key assignments (PF7, PF8, PF9, PF11) are missing; for example, ERRULDUS (Unload Messages).

- # Out of necessity allocate the datasets which are required for some of the NATURAL utilities. For example, the NATUNLD requires the CMWKF01 (Output Dataset). For information about dataset allocation procedure consult the section *ADABAS Maintenance*.
- # Enter the job processing command for JCL/REXX execution (EX) or generation (GN). For information about job processing commands consult the section *SEZAM Commands*.

```

11:19:06 ----- Administrator Startup Menu ----- 2003-08-15
Function ==> 4

_ 1 SEZAM administration
_ 2 ADABAS maintenance
_ 3 ADABAS EVENT REPLICATOR maintenance
_ 4 NATURAL maintenance
_ 5 Finished objects
_ 6 Special functions
_ 7 Authorities

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 8-3: Example of Administrator Startup menu

```

11:19:54 ----- Natural maintenance / Administrator menu ----- 2003-08-15
Function ==> 1

_ 1 NATURAL utilities
_ 2 NATURAL system commands
_ 3 NATURAL user batch programs

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 8-4: Example of NATURAL Maintenance menu

```

11:20:24 ----- Natural utilities / Administrator menu ----- 2003-08-15
Function ==> 1

_ 1 NATUNLD - unload NATURAL objects from NATURAL system files
_ 2 NATLOAD - load NATURAL objects into NATURAL system files
_ 3 SYSERR - maintenance of NATURAL error messages
_ 4 SYSMAIN - maintenance of NATURAL objects
_ 5 INPL - processing of NATURAL objects from Software AG datasets
_ 6 SYSTRANS - transfer objects to other platforms
_ 7 SYSOBJH - transfer objects to other systems

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 8-5: Example of NATURAL Utilities menu

```

11:21:07 ----- Unload NATURAL objects / NATUNLD ----- 2003-08-15
Function ==> 1

_ 1 Unload programming objects
_ 2 Unload views
_ 3 Unload error messages
_ 4 Delete programming objects
_ 5 Delete views
_ 6 Delete error messages

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 8-6: Example of NATUNLD menu

```

11:24:18 ----- Unload programming objects / NATUNLD ----- 2003-08-15
Command ==>

CM - Command help
.....
Parmlist destination:                               Job destination:
  Parmlist name ==> _____ Job name ==> _____
.....
Utility parameters:
  Environment/AdarunMode ==> DB001 / MULTI_
  Library/User/Password ==> SYSDBA__ / DBA_____ /

  Code                ==> C__
  Object name          ==> *_____
  From library         ==> SYSSEZ__
  To library           ==> SYSSEZ__
  Input delimiter      ==> ,
  Terminal commands    ==> %

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help      Exit Defaults      Where      With      AddOn Alloc

```

Figure 8-7: NATUNLD (Programming Objects) screen

```

11:25:08 ----- Where clause / NATUNLD(programming objects) ----- 2003-08-15
Command ==>

CM - Command help
.....
Parmlist destination:
  Parmlist name ==> _____
.....
Where clause:
  Dbid          ==> _____
  Fnr           ==> 7_____
  Vsam name     ==> _____
  Cipher        ==> _____
  Password      ==> _____
  Dic           ==> _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help      Exit Defaults      Accept

```

Figure 8-8: NATUNLD Where Clause (Programming Objects) screen

NATURAL System Commands

The set of NATURAL system commands depends on the user type. An overview of NATURAL system commands for the different user types is shown in Figures 8-9.

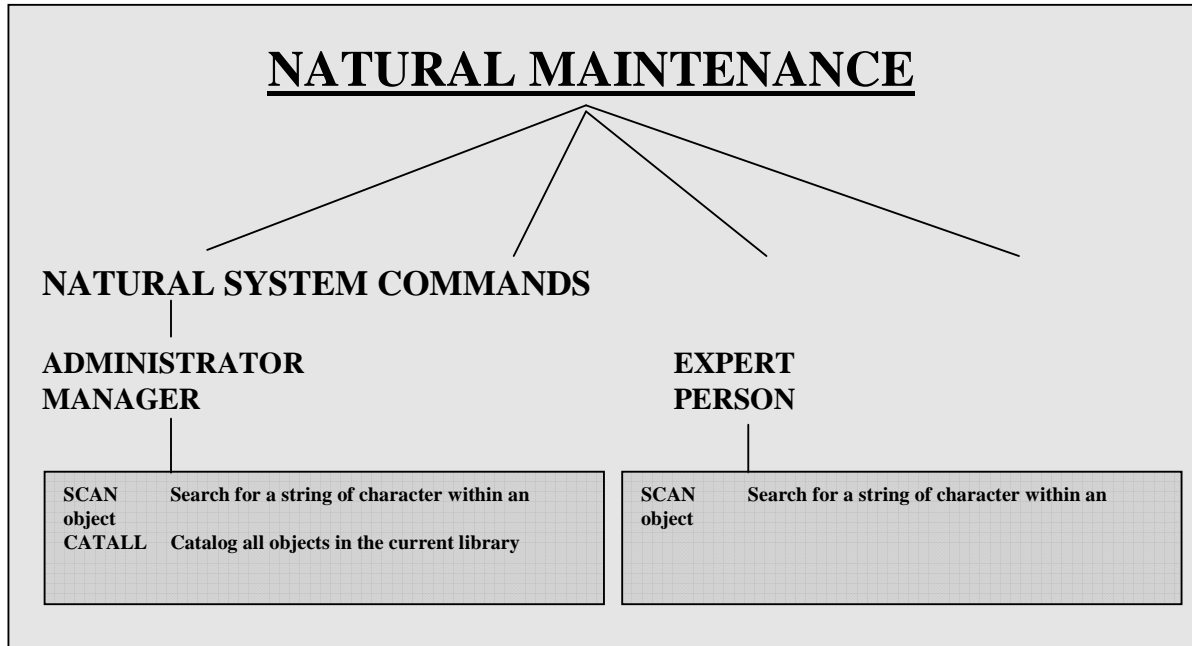


Figure 8-9: Overview of NATURAL System Commands functions

The following program function (PF) keys can be available on NATURAL System Command functional screens:

Key	Function
PF1	Help
PF3	Exit to previous screen
PF4	Set default values of NATURAL system commands
PF7	Define the additional parameters of NATURAL system commands

To execute NATURAL system command perform the following:

- # Enter on the startup menu (Fig. 8-3) in the „Function“ field the corresponding number of the „NATURAL maintenance“ function.
- # Enter on the NATURAL maintenance menu (Fig. 8-10) in the „Function“ field the corresponding number of the „NATURAL system commands“ function.
- # Select NATURAL system command by entering the corresponding number in the „Function“ field on the NATURAL system commands menu, or using the cursor; for example: SCAN System Command (Fig. 8-11).
- # Enter the required and optional NATURAL system command parameters on the functional screen (Fig. 8-12). The step can be executed with the help of parameter's list commands (SA/BR/DE). For information about parameter's list commands consult the section *SEZAM Commands*.
- # Enter the job processing command for JCL/REXX execution (EX), or generation (GN). For information about JCL processing commands consult the section *SEZAM Commands*.

```

11:33:40 ----- Natural maintenance / Administrator menu ----- 2003-08-15
Function ==> 2

_ 1 NATURAL utilities
_ 2 NATURAL system commands
_ 3 NATURAL user batch programs

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 8-10: Example of NATURAL Maintenance menu

```

11:33:57 ----- Natural system commands / Administrator menu ----- 2003-08-15
Function ==> 1

_ 1 SCAN   - search for a string of character within an object
_ 2 CATALL - catalog all objects in the current library

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 8-11: Example of NATURAL System Commands menu

```

11:34:23 ----- Natural system commands / SCAN ----- 2003-08-15
Command ==>

CM - Command help
.....
Parmlist destination:                               Job destination:
Parmlist name ==> _____ Job name ==> _____
.....
Utility parameters:
Environment/AdarunMode ==> DB001 / MULTI_
Library/User/Password ==> SYSDBA__ / DBA_____ /

Code           ==> S                               Natural ==> 23
Scan value     ==> SP00SMK1_____
Replace value  ==> SP00DIJ1_____
Scanned library ==> SYSSEZ__
Scanned objects ==> *_____
Object type    ==> *_____
Absolute scan   ==> Y
Input delimiter ==> ,
Terminal commands ==> %
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit Defaults

```

Figure 8-12: SCAN screen

NATURAL User Programs

SEZAM allows to execute every NATURAL program, or system command in batch.

The following program function (PF) keys can be available on the NATURAL User Program functional screen:

Key	Function
PF1	Help
PF3	Exit to previous screen
PF4	Set default values
PF7	Define NATURAL profile parameters
PF12	Allocate required and optional datasets for the NATURAL user program

To execute the NATURAL user program, or NATURAL system command in batch perform the following steps:

- # Enter on the startup menu (Fig. 8-3) in the „Function“ field the corresponding number of the „NATURAL maintenance“ function.
- # Enter on the NATURAL maintenance menu (Fig. 8-13) in the „Function“ field the corresponding number of the „NATURAL user batch programs“ function.
- # Enter on the functional screen parameters together with datasets required for the NATURAL system command (Fig. 8-14), or for the NATURAL user program (Fig. 8-15). The step can be executed with the help of parameter's list commands (SA/BR/DE). For information about parameter's list commands consult the section *SEZAM Commands*.

SEZAM offers to start the NATURAL user program with default (as defined in the description of the SEZAM environment), or with the user defined NATURAL profile parameters.

To execute user program with default profile parameters, enter „A“ (Automatic) in the „Profile generation“ field (Fig. 8-15).

To start the program with the user defined profile parameters perform the following:

- enter „M“ (Manual) in the „Profile generation“ field (Fig. 8-16);
- press PF7 key to get the NATURAL profile parameters screen (Fig. 8-17);
- enter NATURAL profile parameters (Fig. 8-17);

- press PF6 to accept the entered values. The following message is displayed:

SEZ0092: Additional parameters accepted successfully

- press PF3 to exit the NATURAL profile parameters processing.

- # Enter the job processing command for JCL/REXX execution (EX), or generation (GN). For information about job processing commands consult the section *SEZAM Commands*.
- # Out of necessity allocate the datasets which are required for NATURAL user program. For information about dataset allocation procedure consult the section *ADABAS Maintenance*.

```

11:39:44 ----- Natural maintenance / Administrator menu ----- 2003-08-15
Function ==> 3

_ 1 NATURAL utilities
_ 2 NATURAL system commands
_ 3 NATURAL user batch programs

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit

```

Figure 8-13: Example of NATURAL Maintenance menu

```

11:41:56 ----- Natural user batch programs ----- 2003-08-15
Command ==>

CM - Command help
.....
Parmlist destination:                               Job destination:
  Parmlist name ==> PRDXXX LOAD_____              Job name ==> DUMMY_
.....
Utility parameters:
  Environment/AdarunMode ==> F13000_____ / MULTI_      .....
  Library/User/Password ==> SYSDICBE / _____ /      . DD name
                                                         . CMWKF01_
  Programm/Command   ==> MENU_____                    . _____
  Parameters         ==> LOAD OBJECTTYPE ALL,REPLACE=Y,ADA=N_____ . _____
                                                         . _____
                                                         . _____
                                                         . _____
  Profile generation ==> A                               . _____
  Input delimiter    ==> ,                               . _____
  Terminal commands  ==> %                               .....
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit Defaults      Profile      Alloc

```

Figure 8-14: NATURAL User Batch Program screen
(PREDICT LOAD utility)

```

11:45:13 ----- Natural user batch programs ----- 2003-08-15
Command ==>

CM - Command help
.....
Parmlist destination:                               Job destination:
  Parmlist name ==> F11177_____                      Job name ==> DUMMY_
.....
Utility parameters:
  Environment/AdarunMode ==> F11177_____ / MULTI_      .....
  Library/User/Password ==> KSM_____ / KSM_____ /      *      . DD name
                                                         . CMWKF01_
  Programm/Command   ==> TEST0001_____                  . _____
  Parameters         ==> PARM1,PARM2,%_____            . _____
                                                         . PARM3_____
                                                         . _____
                                                         . _____
  Profile generation ==> A                               . _____
  Input delimiter    ==> ,                               . _____
  Terminal commands  ==> %                               .....
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit Defaults      Profile      Alloc

```

Figure 8-15: NATURAL User Batch Program screen
(with default profile parameters)

```

11:45:13 ----- Natural user batch programs ----- 2003-08-15
Command ==>

CM - Command help
.....
Parmlist destination:                               Job destination:
Parmlist name ==> F11177                               Job name ==> DUMMY_
.....
Utility parameters:
Environment/AdarunMode ==> F11177 / MULTI_           .....
Library/User/Password ==> KSM / KSM /                *      . DD name
                                                    . CMWKF01_
Program/Command   ==> TEST0001                        .
Parameters        ==> PARM1,PARM2,%                  .
                  PARM3                              .
                  _____                        .
                  _____                        .
                  _____                        .
                  _____                        .
Profile generation ==> M                               .
Input delimiter   ==> ,                               .....
Terminal commands ==> %
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults      Profile      Alloc

```

Figure 8-16: NATURAL User Batch Program screen
(with user defined profile parameters)

```

17:08:32 ----- Natural profile parameters ----- 2001-06-28
Command ==>

CM - Command help
.....
Parmlist destination:
Parmlist name ==> _____
.....
Environment ==> F11177

Enter profile parameters:
// PARM='IM=D,INTENS=1' _____
_____
_____
_____
_____
_____

-----010-----+-----020-----+-----030-----+-----040-----+-----050-----+-----060-----+-----070--
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit  Defaults      Accept

```

Figure 8-17: NATURAL Profile Parameters screen

9. Finished Objects

This feature operates with already generated and/or saved jobs, or patterns directly. The overview of the Finished Objects functions is shown in Figure 9-1.

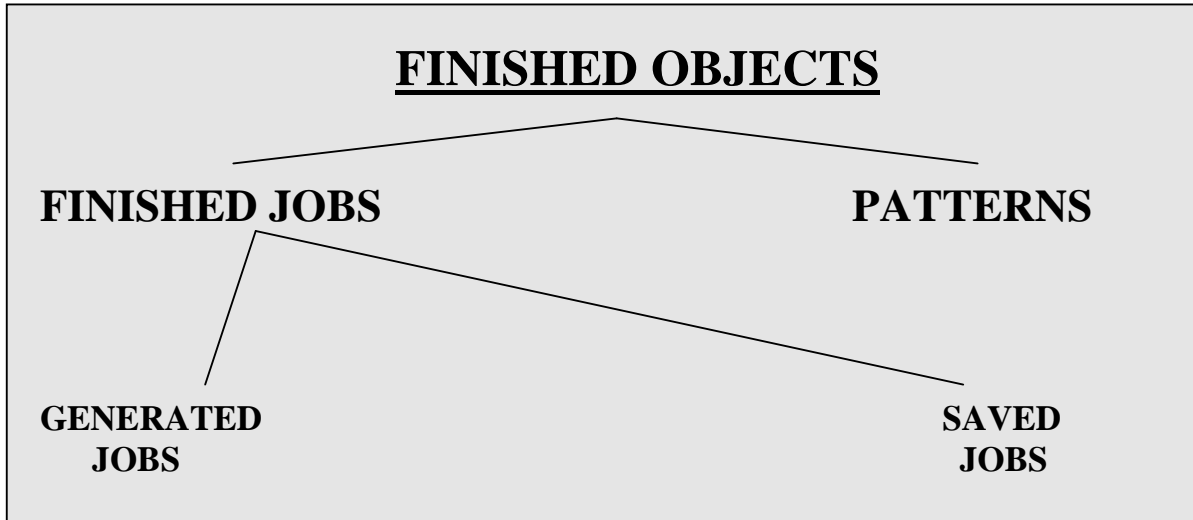


Figure 9-1: Overview of Finished Objects functions

Generated Jobs

The generated job is an ADABAS/NATURAL job which was previously generated from the functional screen with the GN(GENERATE) command.

To execute Generated Jobs facility perform the next steps:

- # Enter on the startup menu (Fig. 9-2) in the „Function“ field the corresponding number of the „Finished Objects“ function.
- # Enter on the Finished Objects menu (Fig. 9-3) in the „Function“ field the corresponding number of the „Finished Jobs“ function.
- # Enter on the Finished Jobs menu (Fig. 9-4) in the „Function“ field the corresponding number of the „Generated Jobs“ function.
- # Enter in the „Job name“ field the name of NATURAL object with the JCL/REXX to be processed and perform one of the following commands (Fig. 9-5):

ED(EDIT) : browse and modification of the generated job.
 LI(LIST) : display the list of one or more generated jobs located in the current library.
 SU(SUBMIT) : pass the generated job to the operating system for execution.

```

11:56:03 ----- Administrator Startup Menu ----- 2003-08-15
Function ==> 5

_ 1 SEZAM administration
_ 2 ADABAS maintenance
_ 3 ADABAS EVENT REPLICATOR maintenance
_ 4 NATURAL maintenance
_ 5 Finished objects
_ 6 Special functions
_ 7 Authorities

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 9-2: Example of Administrator Startup menu

```

16:54:33 ----- Finished Objects ----- 2005-07-19
Function ==> 1

_ 1 Jobs
_ 2 Patterns

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 9-3: Example of Finished Objects menu


```

11:58:27 ----- Finished JOBs ----- 2003-08-15
Function ==> 1

_ 1 Generated jobs
_ 2 Saved jobs

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 9-4: Example of Finished Jobs menu

```

11:58:52 ----- Finished JOBs / Generated JOBs ----- 2003-08-15
Command ==> SU

CM - Command help
.....
Job location:
Library ==> SEZAM312
Job name ==> DUMMY_

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 9-5: Example of Generated Jobs Screen with SU(Submit) command

Saved Jobs

The saved job is an ADABAS/NATURAL job stored in the SEZAM Saved Area.
For information about the SEZAM SAVED JOBS, refer to the *SEZAM Administration Manual*.

To process the Saved Jobs Maintenance take the next steps:

- # Enter on the startup menu (Fig. 9-2) in the „Function“ field the corresponding number of the „Finished Objects“ function.
- # Enter on the Finished Jobs menu (Fig. 9-6) in the „Function“ field the corresponding number of the „Saved Jobs“ function.
- # On the screen with the list of the saved jobs available for the current user (Fig. 9-7) perform one of the following line commands:

BR(BROWSE) : browse the contents of the saved job.
If saved job was created as browse protected the following message will be displayed by the attempt to show its contents:

SEZ0245 Security error: no authority to browse the job

SY(SYSTEM INFO) : display saved job's system information

SU(SUBMIT) : pass the saved job to the operating system for execution.

XP(EXPORT) : export saved job to the NATURAL text object

The information shown in Figure 9-6 includes the following:

Information	Description
DATE	Date of the last modification
JOB NAME	Name of saved job
JOB DESCRIPTION	Description of saved job
OWNER	Name of the job's owner. If the dynamic translation takes place, the translation table of the owner is activated
STATUS-A	Active Status: A - job can be submitted E - job can not be submitted, date/time restrictions are expired
STATUS-D	Disposition: D - job will be deleted after submit K - job will be kept
STATUS-B	Browse/Export Status: Y - job can be browsed/exported N - job can not be browsed/exported
STATUS-R	Restriction Status: R - job is time/people restricted. Job can be processed only by authorized persons and/or only within the defined date/time N - job is unrestricted
STATUS-S	Submit Status: O - job is open, i.e. has not been submitted S - job was submitted
TOTAL RECORDS	Total number of the saved jobs allowed for processing by the current user

```

12:41:27 ----- Finished JOBS ----- 2003-08-15
Function ==> 2

_ 1 Generated jobs
_ 2 Saved jobs

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 9-6: Example of Finished Jobs menu

```

12:42:02 ----- Finished JOBS / Saved JOBS ----- 2003-08-15
Command ==> SCROLL ==> PAGE

CM - Command help Library ==> KSM
Object ==> DUMMY_
.....

Co Job name      Owner   Job description      A D B R S Date
-----
BR $A-BS2000/1   KSM
_  $A-BS2000/2
_  $A-VM          KSM
_  $A-VSE
_  $AER-AERULD    ENTIRE DB AERULD...  A K Y R O 20010226
_  $AER-LOAD      ENTIRE DB AERLOD...  A K Y R O 20010226
_  $CST431-CSFLOAD LOAD UPDATED CODE FRAMES A K Y R O 20010226
_  $CST431-CSHLOAD LOAD UPDATED HELP TEXTS A K Y R O 20010226
_  $CST431-CSMLOAD LOAD UPDATED MODELS   A K Y R O 20010226
_  $CST431-CVHELP  CONVERT EXISTING HELP RECORDS A K Y R O 20010226

Total records ==> 10
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit   Refr           +

```

Figure 9-7: Example of Saved Jobs Screen

Browse Saved Job

Only the jobs with the Browse/Export status set to 'Y' can be browsed. To browse the saved job execute the following:

- # Enter BR(BROWSE SAVED JOB) as line command against the selected job in the Saved Jobs Screen (Fig. 9-7).
- # The contents of the saved job together with some additional information will be shown (Fig. 9-8):

<u>Information</u>	<u>Description</u>
Job	Name of saved job
Desc	Description of the current saved job
Rest	Restriction status of the current saved job
Disp	Disposition of the current saved job
Owner	Name of the saved job's owner
Total	Total number of the strings in the current job

After successfully processing the following message is displayed:

SEZ0175: Job browsed successfully

```

12:43:33 ----- Saved job maintenance / Browse job ----- 2003-08-15
Command ==> SCROLL ==> PAGE

CM - Command Help
.....
Job $A-BS2000/1      Desc                               Rest R  Disp D
Total 24                                                    Owner KSM
1  /.KSMAREP LOGON
2  /REMARK SEZ312:BS2000-1-ADAREP(Report)
3  /REMARK SEZENV=BS2000-1
4  /ASSIGN-SYSDTA *SYSCMD
5  /ASSIGN-SYSLST LI.KSMAREP.DB069.ADAREP.SYSLST
6  /FILE $RZ.ADA621.MOD          ,LINK=DDLIB
7  /FILE $RZ.ADA69.ASSO          ,LINK=DDASSOR1,SHARUPD=YES
8  /FILE $RZ.ADA69.DATA          ,LINK=DDDATAR1,SHARUPD=YES
9  /FILE $RZ.ADA69.WORK          ,LINK=DDWORKR1,SHARUPD=YES
10 /FILE LI.KSMAREP.DB069.ADAREP.DRUCK ,LINK=DDDRUCK
11 /FILE LI.KSMAREP.DB069.ADAREP.PRINT ,LINK=DDPRINT
12 /EXEC (ADARUN,$RZ.ADA621.MOD)
13 ADARUN PROG=ADAREP
-----010-----020-----030-----040-----050-----060-----070--
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit      Restrict      +

```

Figure 9-8: Browse Saved Job Screen

Display System Information

To browse the system information of the saved job execute the following:

Enter SY(DISPLAY SYSTEM INFO) as line command against the saved job in the Saved Jobs Screen (Fig. 9-7), or as direct command from the Browse Saved Job Screen (Fig. 9-8).

The following system information will be displayed (Fig. 9-9):

Information	Description
Job	Name of saved job
Description	Description of the current saved job
Owner	Name of the saved job's owner
Status	Current status of the saved job
Created	Date of creation together with the name of the user who has created the current saved job
Modified	Date of last modification together with the name of the user who has modified the job
Locked	Date of putting the job in the lock status together with the name of the user who has locked the current saved job
Submitted	Date of last submit together with the name of the user who has submitted the job

After successfully execution the following message is displayed:

SEZ0201: Job's sysinfo browsed successfully

```

12:45:25 ----- Saved job maintenance / System information ----- 2003-08-15
Command ==>

? - Help
.....
Job          ==> $A-BS2000/1          Created:
Description ==>                      Date ==> 2002-01-28
Owner        ==>                      User ==> KSM

Status:
  Acive       ==> Active
  Disposition ==> Delete
  Locked      ==> Unlocked
  Restriction ==> Restricted
  Submit      ==> Open

Modified:
  Date ==> 2003-03-20
  User ==> KSM

Locked:
  Date ==>
  User ==>

Submitted:
  Date ==>
  User ==>

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help      Exit

```

Figure 9-9: System Information Screen

Submit Saved Job

Only the not expired jobs with the Browse/Export status set to 'Y' can be browsed. To submit the saved job to the operating system for execution perform the following:

- # Enter SU(SUBMIT) as line command against the selected job in the Saved Jobs Screen (Fig. 9-7), or as direct command from the Browse Saved Job Screen (Fig. 9-8).
- # Confirm submitting of the saved job to the operating system (Fig. 6-11).

After successfully execution the following message is displayed:

SEZ0073: JCL cards submitted to operating system successfully

Export Saved Job

Only the jobs with the Browse/Export status set to 'Y' can be exported from the SEZAM Saved Area to the NATURAL text object. To export the the saved job do the following:

- # Enter XP(EXPORT) as line command against the selected job in the Saved Jobs Screen (Fig. 9-7).
- # Define the source and target job names (Fig. 9-10)
- # Confirm export (Fig. 9-11).

After successfully execution no messages are displayed.

```

13:03:05 ----- Saved jobs maintenance / Export job ----- 2003-08-15
Command ==>

? - Help
.....
Enter saved job to be exported (source):
  Job name      ==> $A-BS2000/1_____

Enter the target job:
  Job name      ==> DUMMY_

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help           Exit

```

Figure 9-10: Saved Job Export Screen

```

13:04:07 ----- Export job confirmation ----- 2003-08-15
Command ==>

? - Help
.....
Environment BS2000-1      Program ADAREP

The job processed successfully and job will be overwritten
Please confirm with Y exporting into KSM(SJDUMMY)
      ==> Y

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help           Exit

```

Figure 9-11: Saved Job Export Confirmation Screen

Patterns

The pattern is a list of the NATURAL objects, or libraries which is used in the various NATURAL add-ons.

To execute Patterns facility perform the next steps:

- # Enter on the startup menu (Fig. 9-2) in the „Function“ field the corresponding number of the „Finished Objects“ function.
- # Enter on the Finished Objects menu (Fig. 9-3) in the „Function“ field the corresponding number of the „Patterns“ function.
- # Enter in the „Pattern name“ field the name of NATURAL object with the list of NATURAL objects/libraries to be processed and perform one of the following commands (Fig. 9-12):

ED(EDIT) : browse and modification of the generated job.
 LI(LIST) : display the list of one or more generated jobs located in the current library.

```

17:29:28 ----- Patterns ----- 2005-07-1
Command ==>

CM - Command help
.....
Job location:
  Library      ==> SEZAM312
  Pattern name ==> DUMMY_

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help      Exit

```

Figure 9-12: Example of Patterns Screen with ED(Edit) command

Dynamic Substituted Statements

The feature allows to define one or more blocks of statements within the job. These statements could be dynamically modified and would be substituted before the JCL/REXX is submitted. The original job keeps unchanged.

Dynamic substituted statements must be defined with the following syntax:

SEZDO[=*Commentary*]

dynamic substituted statements

SEZEND

-----010-----020-----030-----040-----050-----060-----070--

The commentary (optionally) will be shown as the help information by the modification of dynamic substituted statements.

The number of dynamic substituted statements must not exceed 10 statements. Empty blocks (number of dynamic substituted statements is 0) are not allowed.

The example of JCL with dynamic substituted statements is shown in Figure 9-13.

```
//ADASOK JOB (SOK), 'DB-ADMINISTRATOR', CLASS=A, MSGCLASS=X, REGION=3M,
//  NOTIFY=&SYSUID
// * SEZ312:MVS-ADASAV(Save files)-FILE(34)
//STEP01 EXEC PGM=ADARUN
//STEPLIB DD DSN=LIBS.ADA712.LOAD, DISP=SHR
//DDASSOR1 DD DSN=DATA.ADA001.ASSOR1, DISP=SHR
//DDDATAR1 DD DSN=DATA.ADA001.DATAR1, DISP=SHR
//DDWORKR1 DD DSN=DATA.ADA001.WORKR1, DISP=SHR
//DDSAVE1 DD DSN=DATA.ADA001.SAVE1,
//          DISP=(,KEEP),
//          UNIT=TAPE, VOL=SER=TAPE05
//DDDRUCK DD SYSOUT=*
//DDPRINT DD SYSOUT=*
//DDCARD DD *
ADARUN PROG=ADASAV
ADARUN SVC=247
ADARUN DEVICE=3390
ADARUN DBID=003
ADARUN MODE=MULTI
ADARUN DSF=YES
//DDKARTE DD *
SEZDO=Enter file number
ADASAV SAVE FILES=34
SEZEND
ADASAV UTYPE=EXU
// * END GENERATION
```

Figure 9-13: JCL with dynamic substituted statements

By the job submitting, all statements between the SEZDO and SEZEND labels are shown on the screen (Fig. 9-14). The commentary (if exists) is displayed and can be used as the help information.

```

13:10:49 ----- Job execution ----- 2003-08-15
Command ==>

CM - Command help
.....
Parmlist destination:
  Parmlist name ==> _____
.....
Enter dynamic substituted statements:
Enter file number
ADASAV SAVE FILES=34_____
_____
_____
_____
_____
_____
_____
_____
_____
-----010-----020-----030-----040-----050-----060-----070--
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit      Accept

```

Figure 9-14: Job execution screen

After modification of the dynamic substituted statements and pressing PF6(ACCEPT), the job will be submitted to the operating system for execution.

Date and Time System Variables

SEZAM date and time system variables contain information about the current date and time. They may be referenced at any point within an environment or JCL/REXX.

The example of JCL date and time system variables is shown in Figure 9-15.

```
//KSMFASAV JOB (,,,999),'KSM',CLASS=P,MSGCLASS=X
/* SEZ312:F177-ADASAV(Save files)-FILE(1)
/* SEZENV=F177
/*ROUTE XEQ DAEF
/*JOBPARM SYSAFF=DAEF
/*ROUTE PRINT DAEF
//SEZADA EXEC PGM=ADARUN,REGION=8000K,TIME=1440
//STEPLIB DD DSN=RZDBA.DB177.NEWLOAD,DISP=SHR
// DD DSN=RZDBA.DB177.LOAD,DISP=SHR
//DDASSOR1 DD DSN=DB177.SYSF.ASSOR1,DISP=SHR
//DDDATAR1 DD DSN=DB177.SYSF.DATAR1,DISP=SHR
//DDWORKR1 DD DSN=DB177.SYSF.WORKR1,DISP=SHR
//DDSAVE1 DD DSN=SAVE.ADASAVE.D#DATI.T#TIMN7,DISP=(,CATLG)
//DDDRUCK DD SYSOUT=*
//DDPRINT DD SYSOUT=*
//DDCARD DD *
ADARUN PROG=ADASAV
ADARUN SVC=249
ADARUN DEVICE=3390
ADARUN MODE=MULTI
ADARUN DBID=177
//DDKARTE DD *
ADASAV SAVE FILES=1
ADASAV UTYPE=EXU
ADASAV NOUSERABEND
/* END GENERATION
```

Figure 9-15: JCL with date and time system variables

For more information about SEZAM system variables please refer to *Sezam Administration Manual*.

10. Special Functions

The overview of SEZAM Special Functions is shown in Figure 10-1.

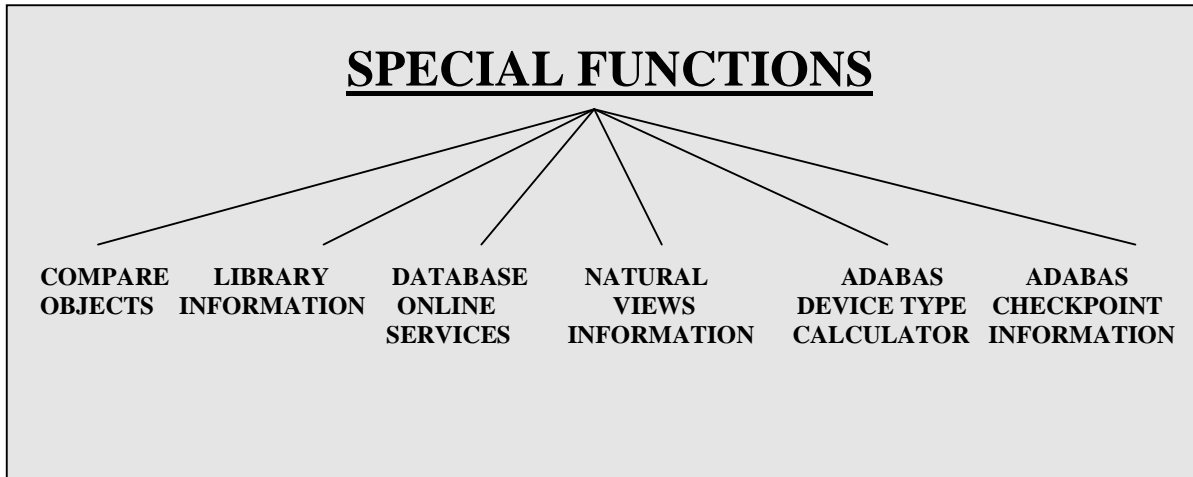


Figure 10-1: Overview of Special Functions

To invoke Special Functions use the SFUN Direct Command, or perform the next steps:

- # Enter on the startup menu (Fig. 10-2) in the „Function“ field the corresponding number of the „Special Functions“ function.
- # Enter on the Special Functions menu (Fig. 10-3) in the „Function“ field the corresponding function code.

```

13:16:50 ----- Administrator Startup Menu ----- 2003-08-15
Function ==> 6

_ 1 SEZAM administration
_ 2 ADABAS maintenance
_ 3 ADABAS EVENT REPLICATOR maintenance
_ 4 NATURAL maintenance
_ 5 Finished objects
_ 6 Special functions
_ 7 Authorities

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 10-2: Example of Administrator Startup menu

```

16:51:40 ----- Special functions ----- 2009-10-12
Function ==>

_ 1 Compare objects
_ 2 Library information
_ 3 Database online services
_ 4 Natural views information
_ 5 Device type calculator
_ 6 Checkpoint information

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 10-3: Example of Special Functions menu

Compare

The SEZAM Compare performs the comparison of two different Natural source objects.

To invoke the Compare function perform the following:

- # Enter on the Special Functions menu (Fig. 10-3) in the „Function“ field the corresponding number of the „Compare“ function.
- # To perform the comparison specify the following parameters on the SEZAM Compare screen (Figure 10-4):
 - location of the first object (name, library, system file: fnat, fuser, fdic) together with the range of lines being compared
 - location of the second object (name, library, system file: fnat, fuser, fdic)
 - offset:
 - null - compared the strings with the same sequential numbers
 - positive - compared the string number (n) of the first object with the string number (n+offset) of the second object
 - negative - compared the string number (n) of the second object with the string number (n+offset) of the first object
 - mode of compare:
 - S - compares 'string with string'
 - I - each string of the first object must be in the second object (could take a lot of time)
 - output mode:
 - B - blind (only final statistic is displayed)
 - S - screen (not for compare mode 'I')
 - D - NATURAL text object

```

13:38:25 ----- Sezam special functions / COMPARE ----- 2003-08-15
Command ==>

CM - Command help
.....
Parmlist destination:                      Report destination:
Parmlist name ==> CM$CALL_____          Report name ==> DUMMY_
.....
Compared objects:                          Statistics:
First object                               Processed ==> 119
Lib/File ==> KSM_____ / U               Differences ==> 92
Object ==> CM$CALLA
From ==> 0000
To ==> 9999
Second object
Lib/File ==> KSM_____ / U
Object ==> CM$CALLC
Settings:
Offset ==> 0____
Mode ==> S
Output ==> B
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help      Exit  Refresh

```

Figure 10-4: Compare screen

Library Information

This feature displays the detailed information about objects located in the NATURAL system, or user library.

To invoke the Library Information function perform the following:

- # Enter on the Special Functions menu (Fig. 10-3) in the „Function“ field the corresponding number of the „Library Information“ function.
- # Specify the library name and press ENTER on on the SEZAM Library Information screen (Figure 10-5)

After successfully execution the following message is displayed:

SEZ0374: Library processed completely

```

13:52:40 ----- Sezam special functions / Library information ----- 2003-08-15
Command ==>

? - Command help
.....
Enter Natural library to be processed:

Library ==> SEZAM312

Natural user file:
Saved objects
Quantity ==> 42
Lines ==> 3456
Cataloged objects
Quantity ==> 41

Natural system file:
Saved objects
Quantity ==> 0
Lines ==> 0
Cataloged objects
Quantity ==> 0

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
Help      Exit  Refresh

```

Figure 10-5: Library Information Screen

Database Online Services

The SEZAM Database Online Services provides the online information about the databases, files and FDTs.

To invoke the Database Online Services perform the following:

- # Enter on the Special Functions menu (Fig. 10-3) in the „Function“ field the corresponding number of the „Database Online Services“ function.
- # Specify the range of the DBIDs (Fig. 10-6). All active databases with DBID in this range will be shown on the Display Databases screen (Fig. 10-7).
- # Specify the range of the DBIDs (Fig. 10-6). All active databases with DBID in this range will be shown on the Display Databases screen (Fig. 10-7).
- # Specify any non blank character or use the cursor to select the database and specify the range of the FNRs (Fig. 10-8). All files loaded to the selected database in this range will be shown on the Display Files screen (Fig. 10-9).
- # Specify any non blank character or use the cursor to select the file and the FDT Information screen will be shown (Fig. 10-10). If the SDT is defined for the selected file, press PF2 to switch to the SDT Information screen (Fig. 10-11).

```
09:42:52 ----- Sezam special functions / Display databases ----- 2009-09-29
Command ==>

? - Help
.....
Enter database ID range:

Starting from ==> 1____
Ending at      ==> 103__

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help      Exit  Defaults
```

Figure 10-6: Display Databases DBID Range Screen

```

09:42:32 ----- Sezam special functions / Display databases ----- 2009-09-29
Command ===> SCROLL ===> PAGE

CM - Command help
-----
S Dbid Version Op.system Nucleus Database ===> 0
- ----- Rsp ===> 0
- 7 8130 Mainframe Noncluster Sub ===> 0
- 9 8140 Mainframe Noncluster
- 10 8140 Mainframe Noncluster
- 15 8140 Mainframe Noncluster
- 21 8140 Mainframe Noncluster
- 27 8140 Mainframe Noncluster
- 36 8140 Mainframe Noncluster
- 54 7440 Mainframe Noncluster
- 63 7420 Mainframe Noncluster
- 76 8140 Mainframe Noncluster

Total records ===> 13 Starting from ===> 1
Ending at ===> 103

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help Exit Refresh +

```

Figure 10-7: Display Databases Screen

```

09:43:30 ----- Sezam special functions / Display databases ----- 2009-09-29
Command ==> SCROLL ==> PAGE

CM - Command help
.....
S Dbid   Version  Op.system  Nucleus      Database ==> 0
- -----
-      7   8130   Mainframe  Nonclus      I Database ==> 10      I ==> 0
-      9   8140   Mainframe  Nonclus      I
x     10   8140   Mainframe  Nonclus      I
-     15   8140   Mainframe  Nonclus      I Enter file range:
-     21   8140   Mainframe  Nonclus      I Starting from ==> 1___ I
-     27   8140   Mainframe  Nonclus      I Ending at      ==> 100_ I
-     36   8140   Mainframe  Nonclus      +-----+
-     54   7440   Mainframe  Noncluster
-     63   7420   Mainframe  Noncluster
-     76   8140   Mainframe  Noncluster

Total records ==> 13                      Starting from ==> 1
                                           Ending at ==> 103

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Refresh      +

```

Figure 10-8: Display Databases File Range Screen

```

15:32:16 ----- Sezam special functions / Display files ----- 2003-08-15
Command ==> SCROLL ==> PAGE

CM - Command help
.....
S File    Status      Database ==> 10
- -----
-      1   Fil          File ==> 0
-      2   Fil          Rsp ==> 0
-      3   Fil          Sub ==> 0
-      4   Sys
-      6   Sys
-      8   Fil
-      9   Fil
-     10   Fil
-     13   Fil
-     14   Fil

Total records ==> 45                      Starting from ==> 1
                                           Ending at ==> 100

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Refresh      +

```

Figure 10-9: Display Files Screen

```

15:36:01 ----- Sezam special functions / Display FDT ----- 2003-08-15
Command ==>                                     SCROLL ==> PAGE

CM - Command help
.....
Database/File ==> 10      / 10

Lev   Name   Leng   Form   Options           Parent of
---   -
1     AA     3      A      NU DE             SUB/SUPERDE
1     BA     4      A      NU DE             SUB/SUPERDE
1     BB     8      A      NU MU DE
1     BC     4      P      NU MU DE
1     BD     68     A      NU MU
1     BE     1      A      DE
1     BF     1      A      DE
1     BG     8      A      NU DE
1     BH     10     A      NU DE
1     BI     8      A      NU

Total records ==> 52
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help SDT   Exit                               +

```

Figure 10-10: Display FDT Screen

```

15:36:20 ----- Sezam special functions / Display SDT ----- 2003-08-15
Command ==>                                     SCROLL ==> PAGE

CM - Command help
.....
Database/File ==> 10      / 10

Type   Name   Leng   Options           Structure
---   -
SUPER  S1       7      UQ NU DE          AA ( 1 - 3 )
                               BA ( 1 - 4 )

Total records ==> 1
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help FDT   Exit

```

Figure 10-11: Display SDT Screen

Natural Views

The SEZAM Natural Views Information delivers the online information about Natural views and FDTs.

To invoke the Natural Views Information perform the following:

- # Enter on the Special Functions menu (Fig. 10-3) in the „Function“ field the corresponding number of the „Natural Views Information“ function.
- # Specify parameters of the Natural views to be processed (Fig. 10-12). All Natural DDMs which meet these parameters will be shown on the Display Views screen (Fig. 10-13).
- # Specify any non blank character or use the cursor to select the view and the FDT Information screen will be shown (Fig. 10-10). If the SDT is defined for the selected file, press PF2 to switch to the SDT Information screen (Fig. 10-11).

```

17:02:38 ----- Sezam special functions / Display views ----- 2009-10-12
Command ==>

? - Help
.....
Enter parameters:

View ==> EMPL*_____
Dbid ==> 177__
File ==> _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help      Exit  Defaults

```

Figure 10-12: Display Views Parameter Screen

```

17:03:37 ----- Sezam special functions / Display views ----- 2009-10-12
Command ==>                                SCROLL ==> PAGE

CM - Command help
.....
S Dbid  File  View                               Database ==>
- ----  - - - - -
_ 177   1    EMPLOYEES-C                       File ==>
_ 177   1    EMPLOYEES-DB177             Rsp ==>
                                   Sub ==>

Total records ==> 2

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help      Exit  Refr

```

Figure 10-13: Display Views Screen

Device Type Calculator

The SEZAM Device Type Calculator provides the online information about the standard characteristics of the device types supported by ADABAS.

To invoke the Device Type Calculator perform the following:

- # Enter on the Special Functions menu (Fig. 10-3) in the „Function“ field the corresponding number of the „Device Type Calculator“ function.
- # Specify or select the device type. The standard values of the device types will be shown on the screen (Fig. 10-12).
- # Specify the ADABAS data set name and the capacity value to be processed by the calculator.

```

10:35:22 ----- Sezam special functions / Calculator ----- 2003-11-26
Command ==>

CM - Command help
.....
Enter device type:
  Device   ==> 3390 MVS/VM/VSE
+-----+-----+-----+-----+-----+-----+-----+-----+
I               I               Adabas block sizes / RABN per track               I
I-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
I Tr I Blk/Trk I Asso I Data I Work I Sort/ I Clog I Plog/ I
I Cl +-----+-----+-----+-----+-----+-----+-----+-----+-----+
I   I FBA I PAM I       I       I       I Temp I       I Rlog I
I-----+-----+-----+-----+-----+-----+-----+-----+-----+
I 15 I       I       I 2544 I 5064 I 5724 I 8904 I 5064 I 5724 I
I   I       I       I 18   I 10   I 9    I 6    I 10   I 9    I
+-----+-----+-----+-----+-----+-----+-----+-----+-----+

Calculate:
  Dataset-- Mbyte---- Cyl----- Trk----- Blk-----
      _____ 0_____ 0_____ 0_____ 0_____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help      Exit Defaults Select

```

Figure 10-12: Device Type Calculator Screen

Checkpoint Information

The SEZAM Checkpoint Information feature provides the detailed online information about the ADABAS Checkpoints.

To invoke the Checkpoint Information perform the following:

- # Enter on the Special Functions menu (Fig. 10-3) in the „Function“ field the corresponding number of the „Checkpoint Information“ function.
- # The ADABAS checkpoints are shown on the screen (Fig. 10-13).
- # The detailed information can be processed by 'BR' line command.

```

12:54:59 ----- Sezam special functions / Checkpoints ----- 2004-02-20
Command ==> SCROLL ==> PAGE

CM - Command help
.....
Co  Type Name Originator Description
---
___ 01  SYNC ADANUC      Written by nucleus at start of nucleus session
___ 01  SYNf User/Util.    User/utility session OPEN with files used in >>>>
___ 01  SYNx EXU user      EXU user open
___ 02  SYNv ADANUC      VOLSER entry. Written at volume switch on DD >>>>
___ 03  SYNf User/Util.    Close checkpoint for an EXF user
___ 03  SYNx EXU          Close checkpoint for an EXU user
___ 05  SYNp ADASAV      SAVE file(s)-start of operation
___ 06  SYNp ADASAV      SAVE database-start of operation
___ 07  SYNp ADASAV      RESTORE file(s)-end of operation
___ 08  SYNp ADASAV      RESTPLOG-end of operation

Total records ==> 93

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help      Exit  Refr      +

```

Figure 10-13: Checkpoint Information Screen

11. Authorization

This function provides the overview of the user's definitions within SEZAM.

To invoke the Authorities function perform the next steps:

Enter on the startup menu (Fig. 11-1) in the „Function“ field the corresponding number of the „Authorities“ function.

On the Authorization screen (Fig. 11-2) one of the following line commands can be processed:

EN : display environment's description

FU(FUNCTIONS) : browse the list of the allowed ADABAS/NATURAL utilities and functions

US(USER INFO) : browse user's definition

```

15:40:29 ----- Administrator Startup Menu ----- 2003-08-15
Function ==> 7

_ 1 SEZAM administration
_ 2 ADABAS maintenance
_ 3 ADABAS EVENT REPLICATOR maintenance
_ 4 NATURAL maintenance
_ 5 Finished objects
_ 6 Special functions
_ 7 Authorities

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit

```

Figure 11-1: Example of Administrator Startup menu

```

15:41:35 ----- User authorization ----- 2003-08-15
Command ==>                                SCROLL ==> PAGE

CM - Command help
.....

User information          Co  Env.      Description
-----
Name                    ==> KSM      _  A001      daea Application
Type                    ==> A        _  A012      daea Application
Authorization            ==> Y        _  A014      daea Application
Created by               ==> KSM      _  A015      daea Application
Date of creation ==> 1999-04-13  _  A016      daea Application
                        _  A017      daea Application
                        _  A018      daea Application
                        _  A019      daea Application
                        _  A020      daea Application
                        _  A026      daea Application

                        Total records ==> 10

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12--
      Help           Exit  Refr          +

```

Figure 11-2: Example of Authorization Screen

Notes

Notes